DRAFT DATE: 20 FEB 2004

NAD

SERVICE MANUAL

T 753

Surround Sound Receiver

T 753

Surround Sound Receiver

SAFETY INFORMATION

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THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, (2) THIS DEVICE MUST ACCEPT INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

NAD ELECTRONICS INTERNATIONAL
633 GRANITE COURT, PICKERING, ON CANADA L1W 3K1
MODEL T 753 A/V SURROUND SOUND RECEIVER
POWER RATING 120V 60Hz 6A ~
CUSTOM MANUFACTURED TO NAD SPECIFICATIONS IN THE PEOPLE'S REPUBLIC OF CHINA

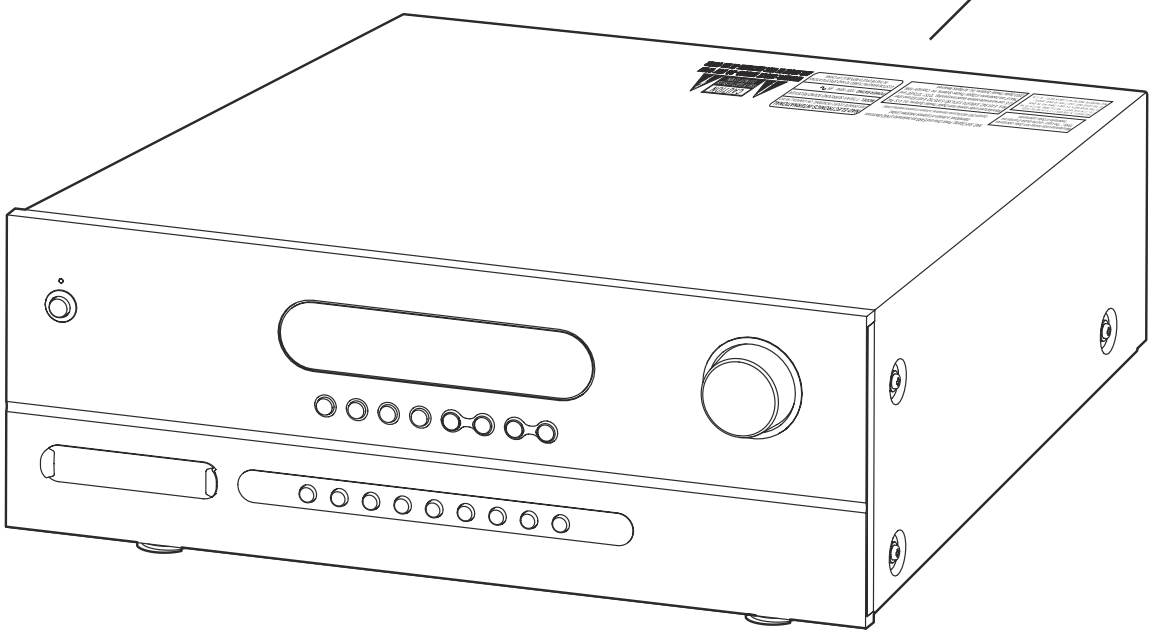
AH VERSION

NAD ELECTRONICS INTERNATIONAL
MODEL T 753 A/V SURROUND SOUND RECEIVER
POWER RATING 230V 50Hz 3A ~
CUSTOM MANUFACTURED TO NAD SPECIFICATIONS IN THE PEOPLE'S REPUBLIC OF CHINA

C VERSION

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: SHOCK HAZARD - DO NOT OPEN
AVIS: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR



SERVICE SAFETY PRECAUTIONS

1. Replacing the fuses

CAUTION:
FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE REPLACE ONLY WITH SAME TYPE OF FUSE.

Reference Designator	Part Number	Description
F751*AH	33-0191001-00-88	Fuse 10A 250V Time Lag 5x20 MM UL/CSA
F751*C	33-0181006-00-88	Fuse 6.3A 250V Time Lag 5x20 MM UL/CSA/SEMKO/VDE
F752*AH	33-0111006-00-48	Fuse 1.6A 250V Time Lag 5x20 MM UL/CSA/VDE/SEMKO
F752*C	33-0151006-00-48	Fuse 800mA 250V Time Lag 5x20 MM UL/CSA/VDE/SEMKO

NOTE:
<*AH > : USA, CANADIAN MODEL ONLY.
<*C > : EUROPEAN MODEL ONLY.

2. Safety check out

(Only U.S.A. model)

Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from supply circuit.

Parts marked with the symbol ⚠ are critical with regard to the risk of fire and electric shock.
Replace only with parts recommended by the manufacturer.

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SPECIFICATIONS

POWER AMPLIFIER SECTION

Rated distortion	(Rated power level into 8 ohms, THD 20 Hz-20 kHz FL/C/FR)	≤ **0.1 %**
	(Rated power level into 8 ohms, THD 20 Hz-20 kHz SL/SR/BS)	≤ **0.1 %**
Input Sensitivity	(ref. 8 ohms, 1 kHz)	**127 ± 20 mV**
S/N Ratio	(A-wtd, 1kHz, 1 W, 8 ohm, SL/SR/BL)	**≥ - 72 dB**
Frequency Response	(20 Hz - 20 kHz)	**0 ± 1.0 dB**
Channel Balance	(1 dB to -40 dB, 1 kHz)	≤ **2 dB**
	(-41 dB to -50 dB, 1 kHz)	≤ **3 dB**
Audio muting at 1 kHz		**≥ 55 dB**
Subwoofer out, 500 mV in	(THD at 2 V O/P, 100 Hz)	≤ **0.5 %**
Crosstalk	(500 mV input, 10 W, 1 kHz)	**≥ -57 dB**

Controls

Bass	(at 500 mV in, 1 W out, 100 Hz)	**± 10 dB ± 2 dB**
Treble	(at 500 mV in, 1 W out, 10 kHz)	**± 10 dB ± 2 dB**

DOLBY DIGITAL SECTION

Channel Difference(FL ref. Track 30)			**± 1.2 dB**
Frequency Resporse at Dolby config.2		SL Track 46 200 - 20 kHz	**± 0.8 dB**
		SR Track 47 200 - 20 kHz	**± 0.8 dB**
		C Track 44 200 - 20 kHz	**± 0.8 dB**
Harmonic Distortion	(1 W, Audio LPF, Dolby Congfig 1)	FL Track 65 997 Hz	≤ **0.08 %**
		FR Track 67 997 Hz	≤ **0.08 %**
		SL Track 68 997 Hz	≤ **0.08 %**
		SR Track 69 997 Hz	≤ **0.08 %**
		C Track 66 997 Hz	≤ **0.08 %**
S/N Ratio	(31 for O/P 1 W, Track 35)	CCIR / ARM	**≥ 65 dB**
		Audio LPF	**≥ 70 dB**
		A-wtd	**≥ 70 dB**
Channel Separation	(1 W, 20 kHz LPF)	Track 65 997 Hz	**≥ 60 dB**

DOLBY PRO LOGIC II SECTION

Frequency Resporse

I/P mode : L, R	: 1 V in, 1 W, Ch L/R	40 Hz	**0 ± 2.0 dB**
		20 Hz	**0 ± 2.0 dB**
I/P mode : L=R	: 1 V in, 1 W, Ch /L/R	40 Hz	**0 ± 2.0 dB**
	Ch C	20 kHz	**0 ± 2.0 dB**
I/P mode : L=-R	: 1 V in, 1 W, Ch SL/SR	40 Hz	**0 ± 2.0 dB**
		20 kHz	**0 ± 2.0 dB**

S/N Ratio (200 mV in, 1 W, A-WTD w/ 1 k termination)

I/P mode : L, R	: 1 kHz, Ch L/R	**≥ 65 dB**
I/P mode : L=R	: 1 kHz, Ch C	**≥ 65 dB**
I/P mode : L=-R	: 1 kHz, Ch SL/SR	**≥ 65 dB**

THD (2.2 V in, 1 W, w/ 80 kHz LPF, 1 kHz) ≤ **0.2 %**

DTS SECTION

Output Level (Vol 0 dB)	: FL/FR/C/SL/SR	Track 6 1 kHz	**0.3 ± 1.3 W**
Channel Difference (FL ref)	: FL/FR/C/SL/SR	Track 6 1 kHz	**± 1.0 dB**
Harmonic Distortion (Audio Filter)	: FL/FR/C/SL/SR	Track 10-14 1 kHz	**≤ 0.08 %**
Frequency Response (20 Hz to 20 kHz)		Track 26-30	**+2/-1.5**
Subwoofer Output Level	1 kHz ref at pre-out (FL)	Play Track 10, charge to 15	**12.5 ± 1.5 dB**

AM TUNER SECTION

Input level is expressed as the reading in open circuit of 75-ohm source impedance signal generator

Usable sensitivity	(999/1000 kHz)	**≤ 30 dBuV**
S/N Ratio	(5 mV in)	**≥ 38 dB**
THD	(5 mV in)	**≤ 3 %**
IF Rejection	(450 kHz)	**≤ 36 dB**
Image Rejection	(F+2xIF)	**≥ 28 dB**
Selectivity		**≥ 17 dB**
Output		**170 -20/+30 mV**
Loop sensitivity	(20 dB S/N)	
	999/1000 kHz	**≤ 66 dB**
	603/600 kHz	**≤ 66 dB**
	1404/1400 kHz	**≤ 66 dB**
Frequency Response	(100 - 2.3 kHz, 5 mV)	**± 6 dB**

FM TUNER SECTION

Input level is expressed as the reading in open circuit of 75-ohm source impedance signal generator

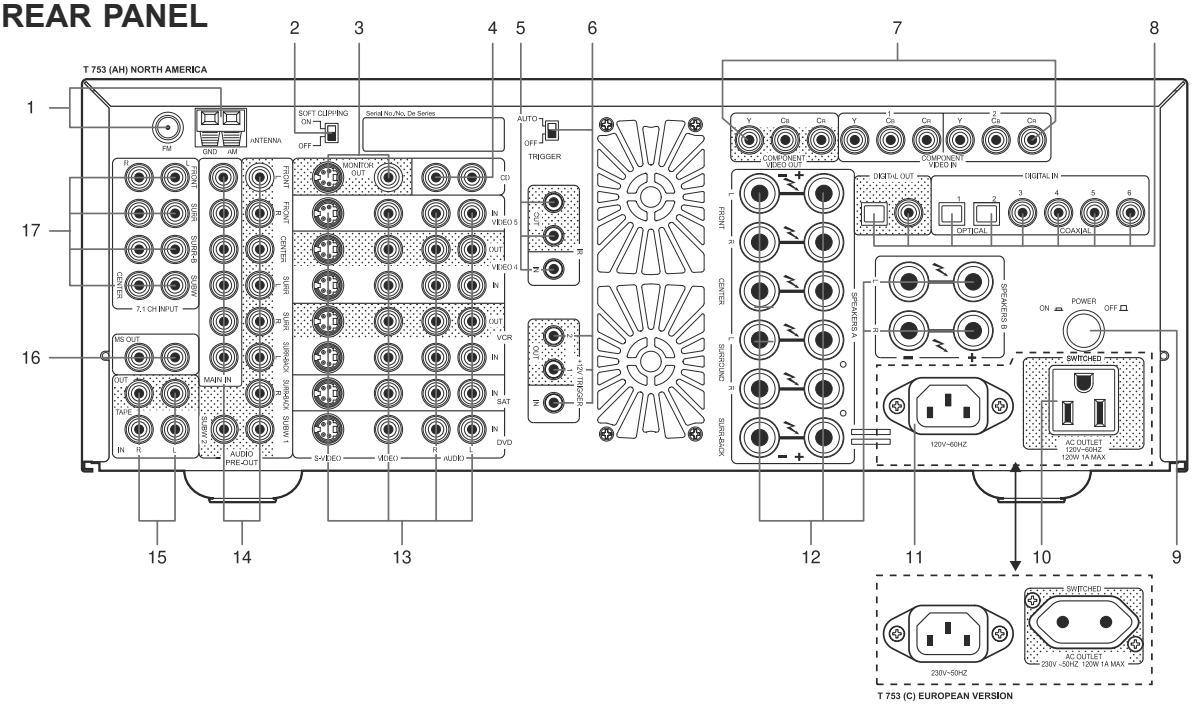
			*C	*AH
Usable sensitivity	(98 MHz)		**≤ 15 dBµV**	**≤ 15 dBuv**
S/N Ratio	(60 dB, IHF wtd)	Mono	**≥ 63 dB**	**≥ 63 dB**
		Stereo	**≥ 63 dB**	**≥ 63 dB**
Frequency Response	(20 Hz - 15 kHz, 60 dBµ)		**0 ± 1.5 dB**	**0 ± 1.5 dB**
Channel Separation	(60 dBµ)	100 Hz	**≥ 30 dB**	**≥ 30 dB**
		1 k	**≥ 38 dB**	**≥ 38 dB**
		10 kHz	**≥ 30 dB**	**≥ 30 dB**
Alternate Channel Selectivity (40 dBµ, ± 400 kHz)			**≥ 60 dB**	**≥ 45 dB**
Capture Ratio	(40 dBµ)		**≤ 3 dB**	**≤ 3 dB**
AM Suppression (60 dBµ, 100% Mod. FM, 30% Mod. AM)			**≥ 48 dB**	**≥ 48 dB**
Image Rejection	(119.4 MHz)		**≥ 65 dB**	**–**
I.F. Rejection	(10.7 MHz)		**–**	**≥ 78 dB**
Pilot Suppression	(98 MHz)		**≥ 60 dB**	**≥ 60 dB**
THD (60 dBµ, L=R 75 kHz for AH, 40 kHz Dev for C)		Mono	**≤ 0.25 %**	**≤ 0.25 %**
		Stereo	**≤ 0.35 %**	**≤ 0.35 %**
Auto-Search Sensitivity		On	**≥ 24 dBµ**	**≥ 24 dBµ**
		Off	**≤ 15 dBµ**	**≤ 15 dBµ**
RDS decode Sensitivity			**≤ 26 dBµ**	**–**

PHYSICAL SPECIFICATIONS

Dimensions (Width x Height x Depth)	**435 x 170 x 423 mm**
Net Weight	**20.50 Kg (45.10 lbs)**
Shipping Weight	**24.0 Kg (52.80 lbs)**

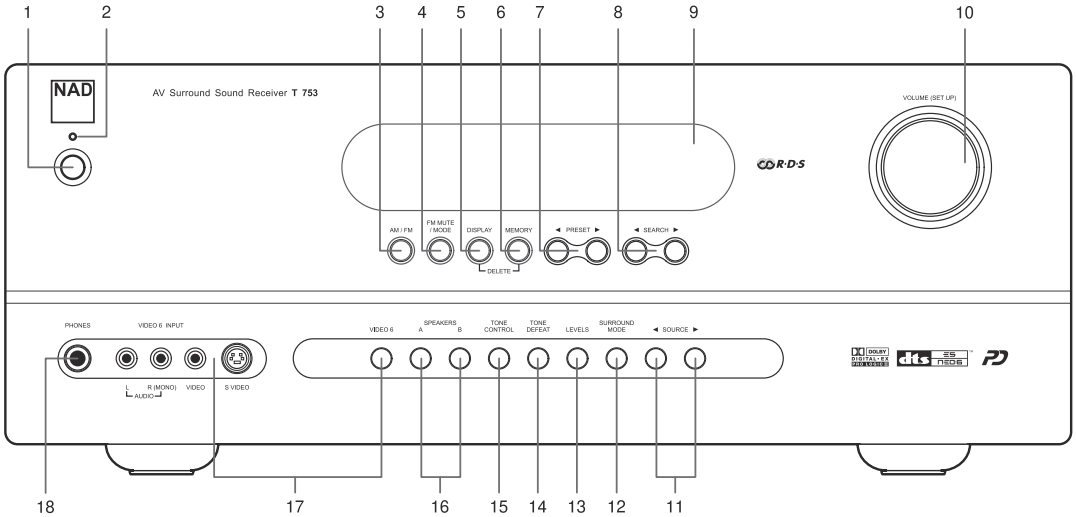
REAR PANEL / FRONT PANEL VIEW

REAR PANEL



1. FM & AM ANTENNA
2. SOFT CLIPPING ON/OFF
3. MONITOR OUT
4. CD INPUT
5. IR INPUT & OUTPUT
6. +12V TRIGGER INPUT & OUTPUT
7. COMPONENT VIDEO IN & COMPONENT VIDEO OUT
8. DIGITAL AUDIO INPUT & DIGITAL AUDIO OUTPUT
9. POWER SWITCH
10. SWITCHED AC OUTLETS
11. AC POWER INLET
12. SPEAKERS A & B
13. DVD, SAT, VCR, VIDEO 4 & VIDEO 5
14. MAIN IN / AUDIO PRE-OUTS / SUBWOOFER OUT
15. TAPE INPUT & OUTPUT
16. MS OUT (MULTISOURCE OUT)
17. 7.1 CH. INPUTS

FRONT PANEL



1. STANDBY SWITCH
2. STANDBY LED
3. AM / FM
4. FM MUTE / MODE
5. DISPLAY
6. MEMORY
7. PRESET DOWN / UP
8. SEARCH DOWN / UP
9. VFL DISPLAY
10. VOLUME (SETUP)
11. SOURCE DOWN / UP
12. SURROUND MODE
13. LEVELS
14. TONE DEFEAT
15. TONE CONTROLS
16. SPEAKERS A & B
17. VIDEO 6 INPUT
18. PHONES

DISASSEMBLY INSTRUCTIONS

1. Remove machine screws M4.0 x 8.0 (**1** to **6**) from the side panels.
Remove tapping screw 3.0 x 8.0 (**7** to **10**) from the back panel.
Refer to **Figure No. 1**.

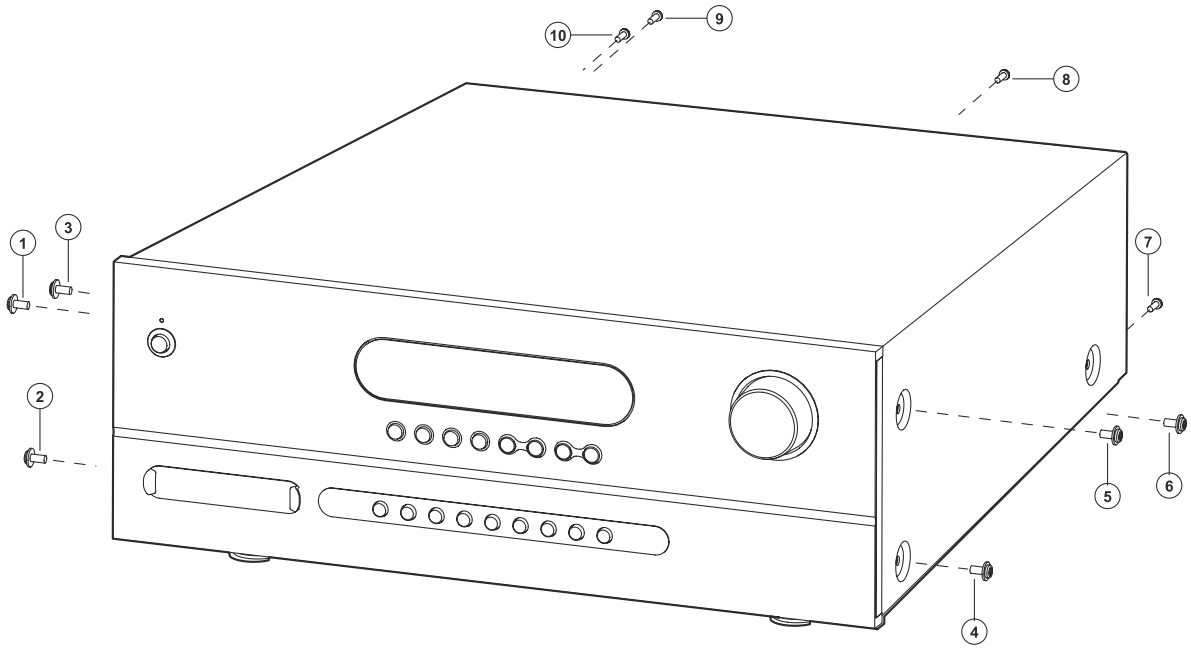


Figure No. 1

2. Pull both sides of the TOP COVER slightly outwards **11** and tilt approx. 35 ° and then remove in the direction as indicated by the arrow **12**. Refer to **Figure No. 2**.

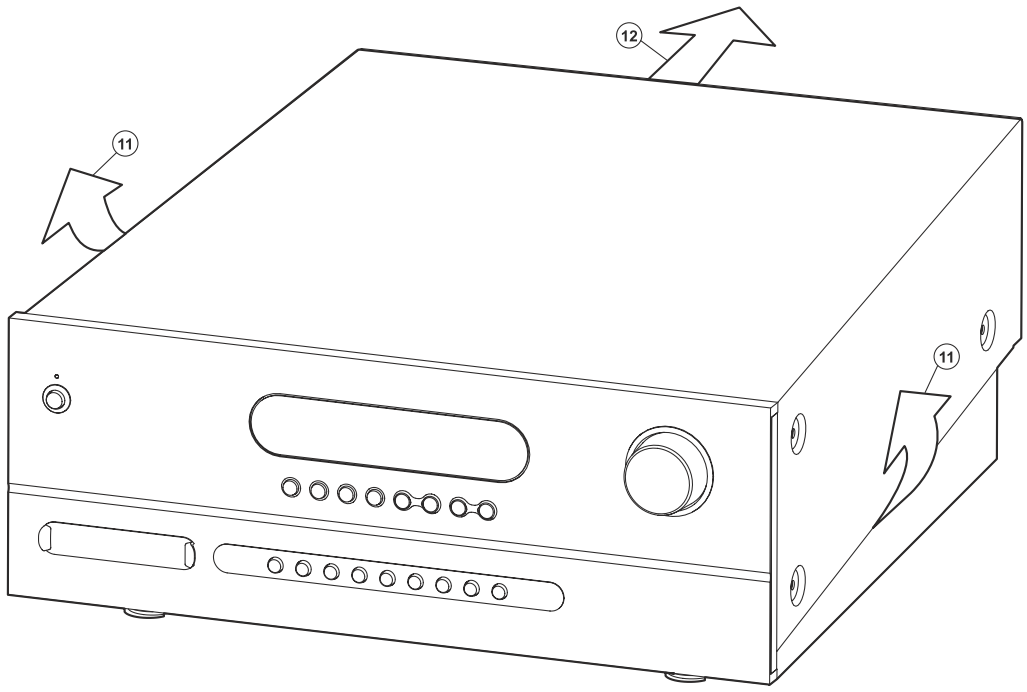
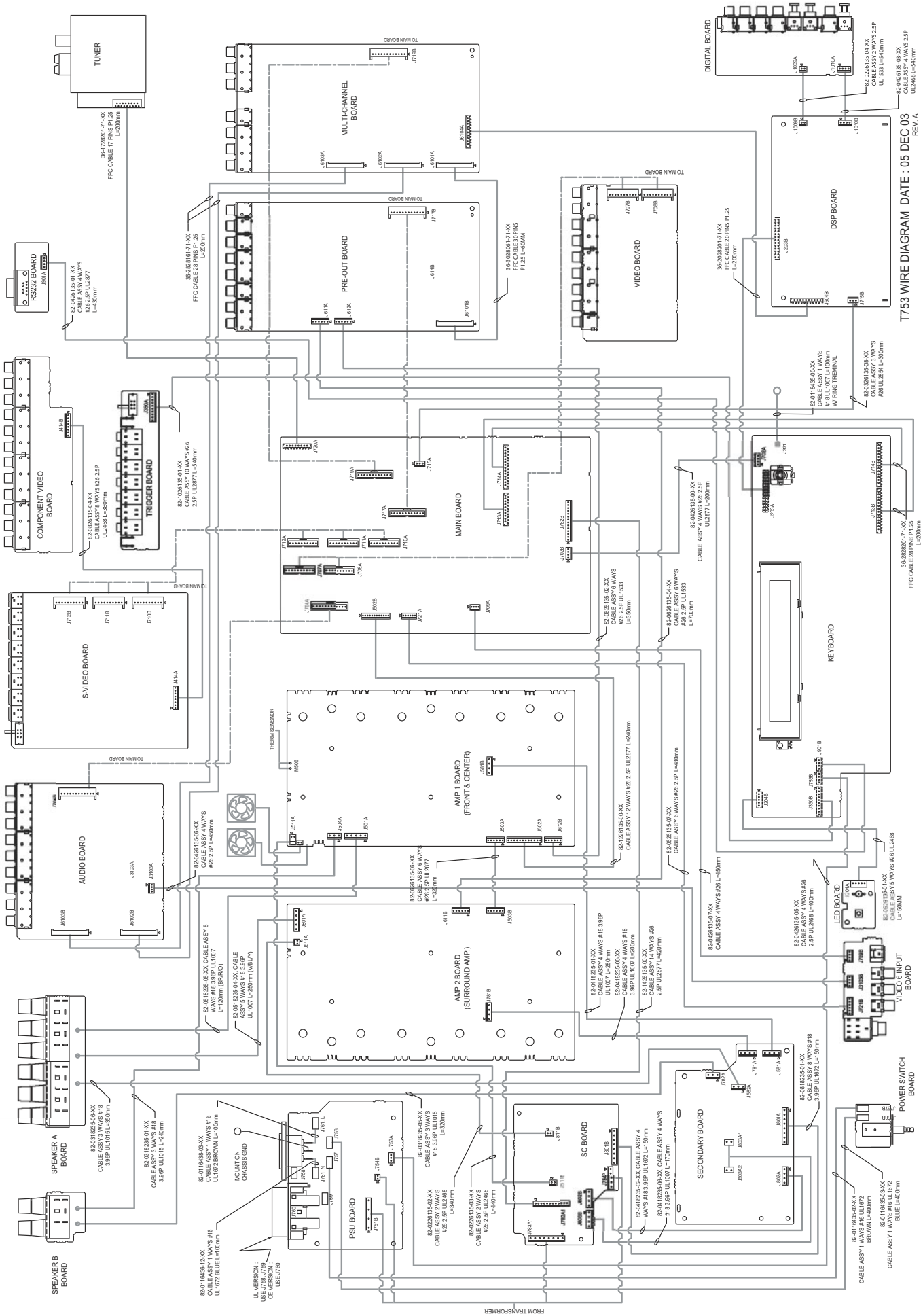
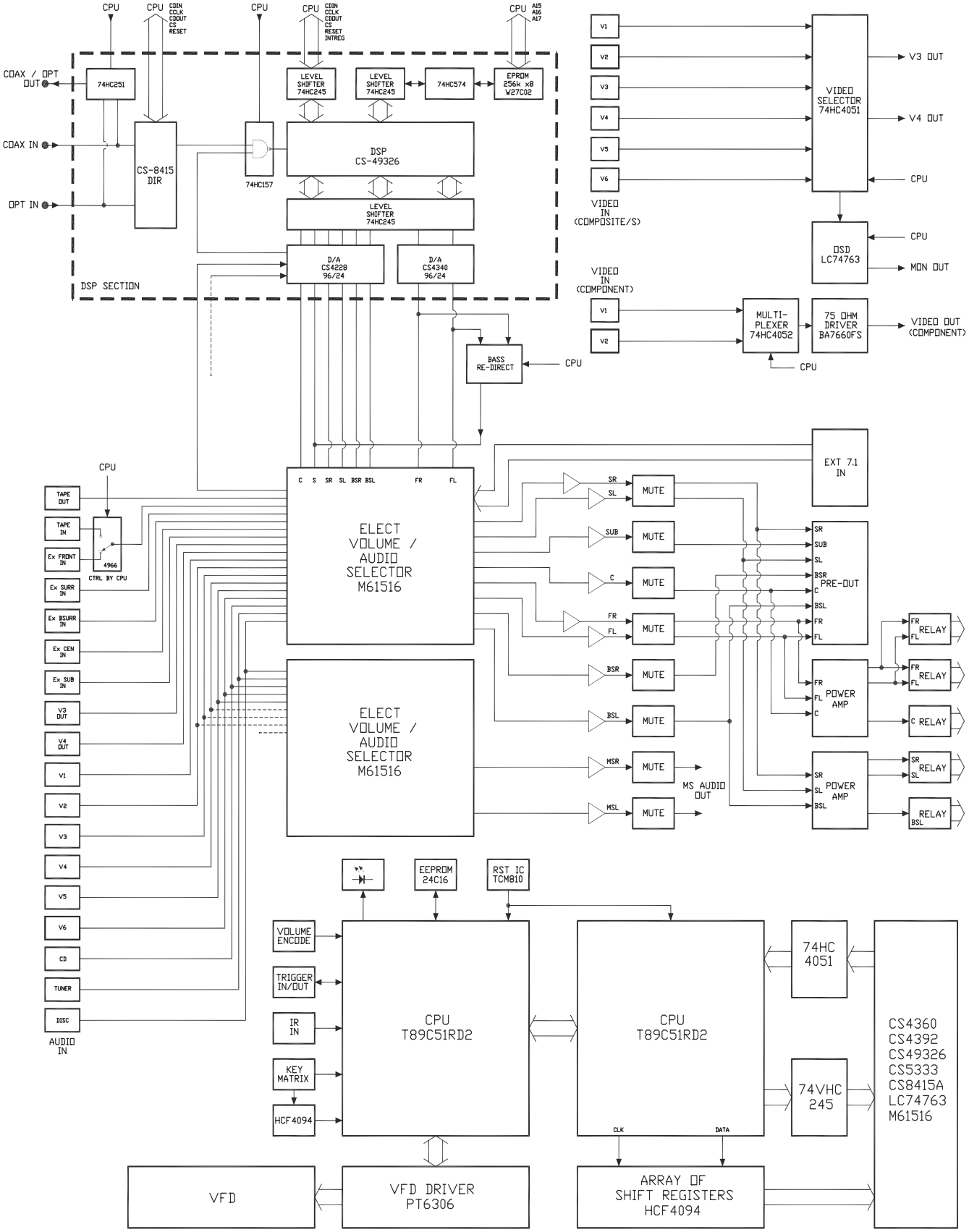


Figure No. 2

WIRING DIAGRAM



BLOCK DIAGRAM



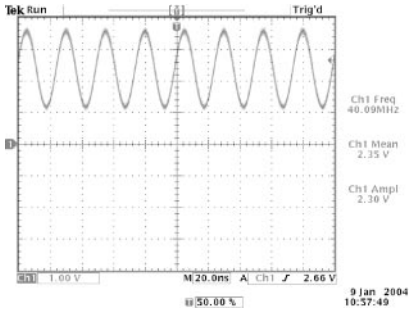
T753 Block Diagram
Issue : 01

SPECIAL FUNCTION

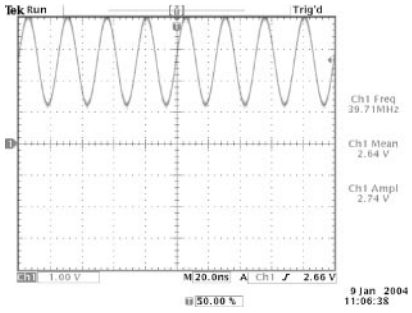
FEATURE	KEYS PRESS ON FRONT PANEL
RESET FOR AH VERSION	VIDEO 6 +SOURCE UP
RESET FOR C VERSION	VIDEO 6 + SOURCE DOWN
NTSC / PAL SELECTION	VIDEO + MEMORY
VFD ALL DISPLAY	AUDIO 6 + TONE DEFEAT
AM FREQ. STEP	AM/FM + FM MUTE

DETAILS & WAVEFORMS ON SYSTEM TEST & DEBUGGING

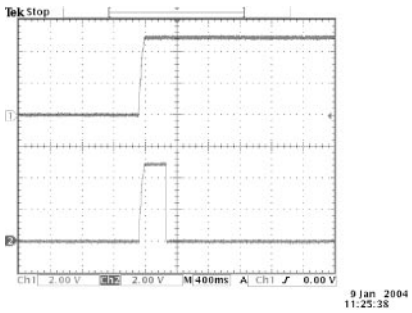
M6759(U202) main clock is at 40MHz(X202)



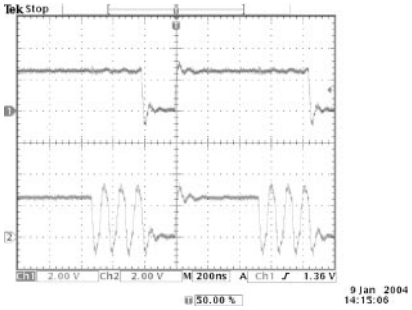
M6759(U201) main clock is at 40MHz(X201)



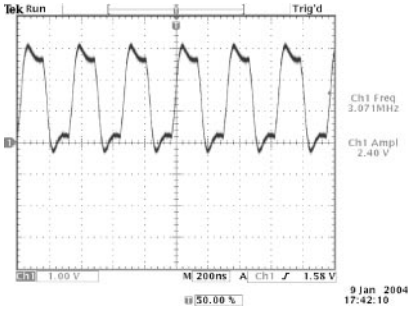
UPPER - +5V supply to KEYBOARD when power up
LOWER - RESET line (TCM810LENB713) when power up



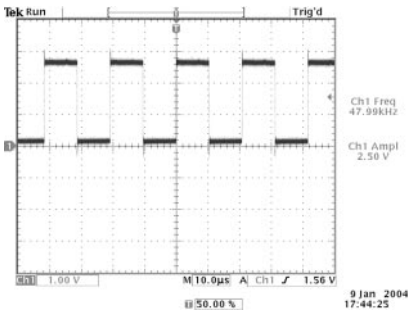
UPPER - OUTPUT ENABLE(pin 24) of EPROM (W27C02) when changing SURROUND MODES
LOWER -†CHIP ENABLE(pin 22) of EPROM (W27C02) when changing SURROUND MODES



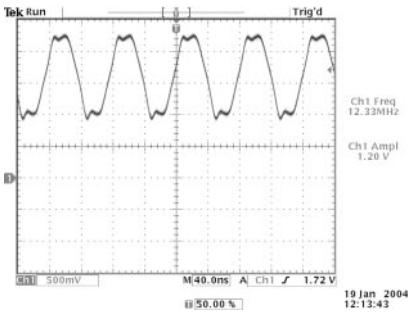
SCLK (pin 43 of CS49326)



LRCLK (pin 42 of CS49326)



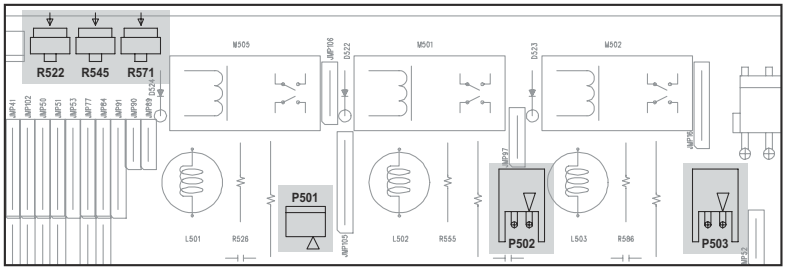
MCLK (pin†30 of CS49326)



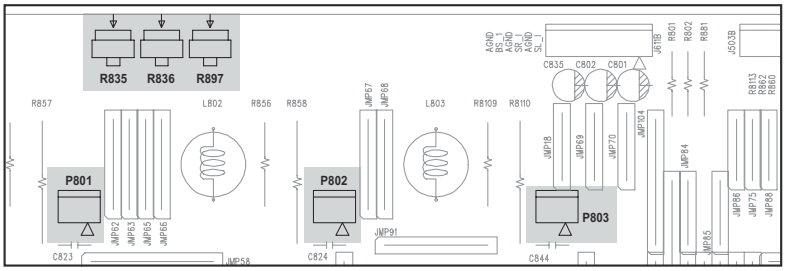
NOTE: The waveforms are based on software version V1.27.

ADJUSTMENT POINT DIAGRAM

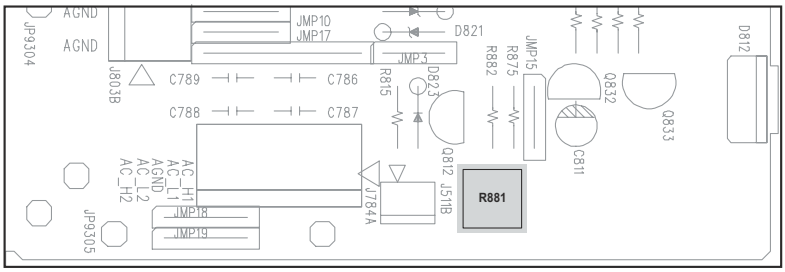
FRONT / CENTER AMPLIFIER BOARD



SURROUND AMPLIFIER BOARD



SECONDARY / ISC BOARD



AMPLIFIER ADJUSTMENT

Idle Current

1. Rotate R522 fully clockwise.
2. Connect DC millivoltmeter to P501 (i.e. Across half of R523, 0.22 Ohm resistor).
3. Turn on the unit.
4. Adjust R522 for 1mV reading on voltmeter.
5. Leave power on for at least 5 min, and check for idle current again.
6. Repeat for other channels.

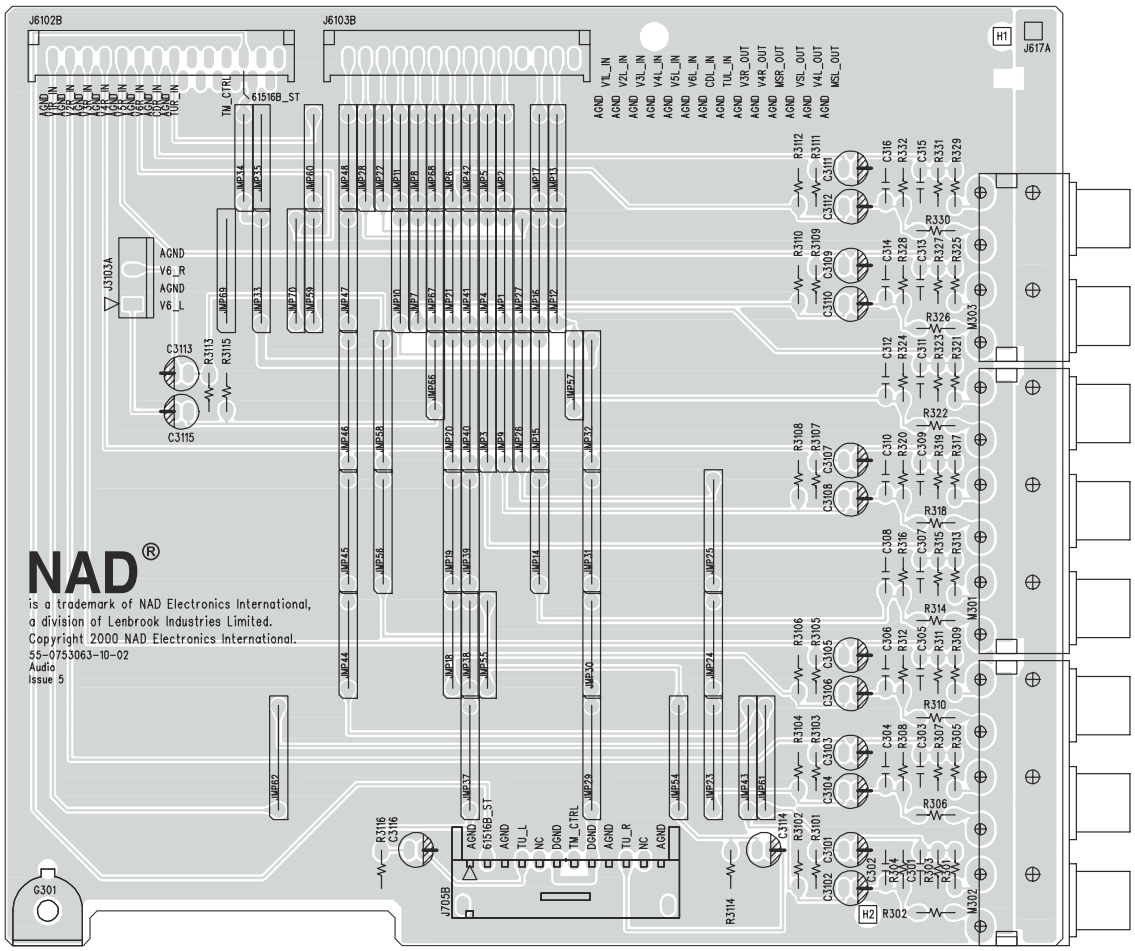
CHANNEL	JUMPER	VR
FL	P501	R522
FR	P502	R545
C	P503	R571
SL	P801	R835
SR	P802	R836
BS	P803	R897

ISC Sensitivity

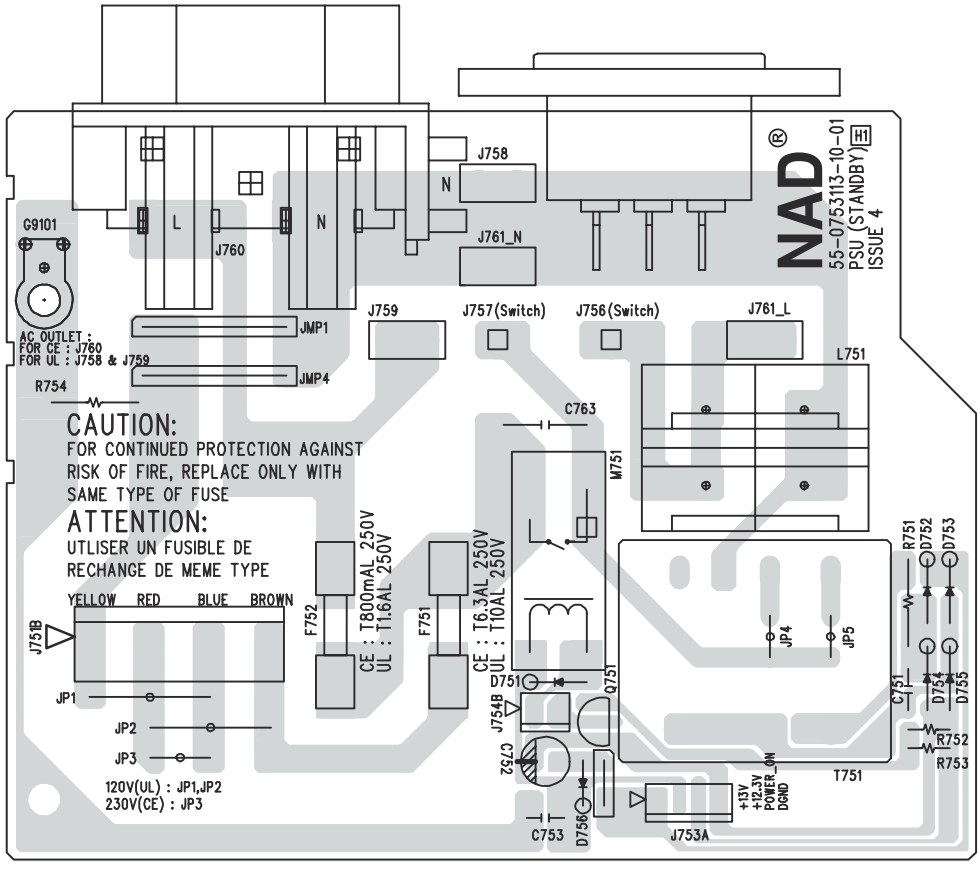
1. Connect 8 ohm loading to all channels.
2. Rotate R881 fully clockwise.
3. Load all channels at full power using 1kHz sine wave.
4. At this time, monitor the THD of the SL,SR,BS output. Clipping should occur before full power achieved.
5. Rotate R834 counter-clockwise slowly until the THD just below 0.1%.
6. Repeat step 2-5 for R834 but monitor FL, FR & Center output.
7. The procedure is finish at this step.
8. Load all channels at full power using 1kHz sine wave with 4 ohm load.
9. The clipping power(at THD 0.1%) should less than 85W.

PCB LAYOUT

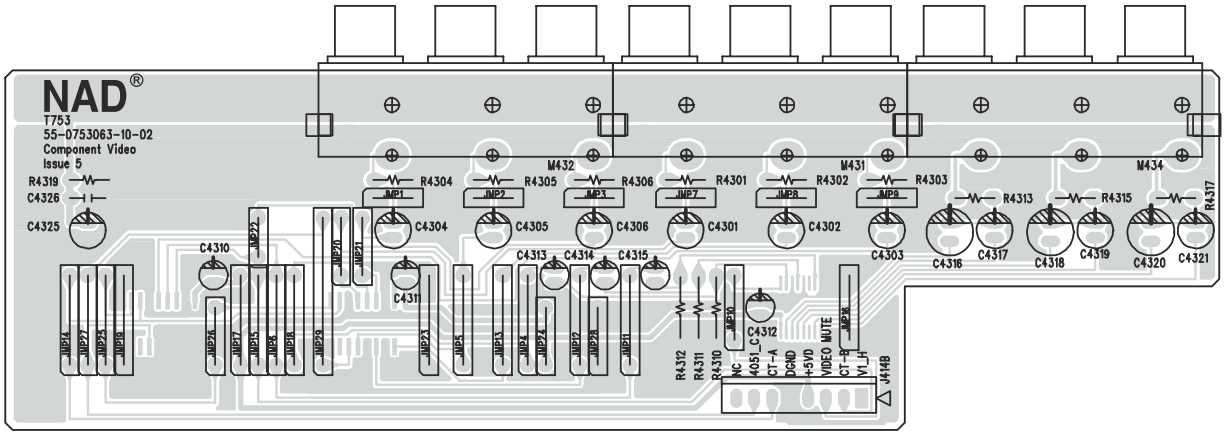
AUDIO BOARD



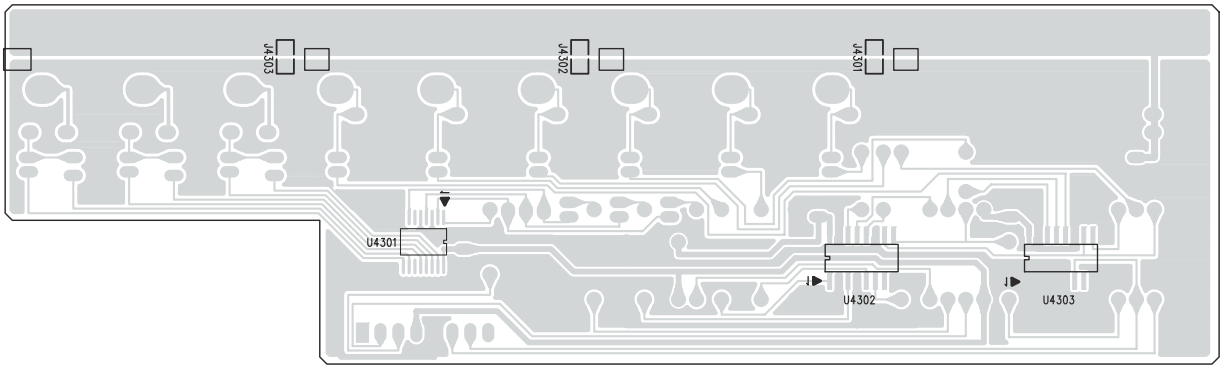
POWER SUPPLY (STANDBY) BOARD



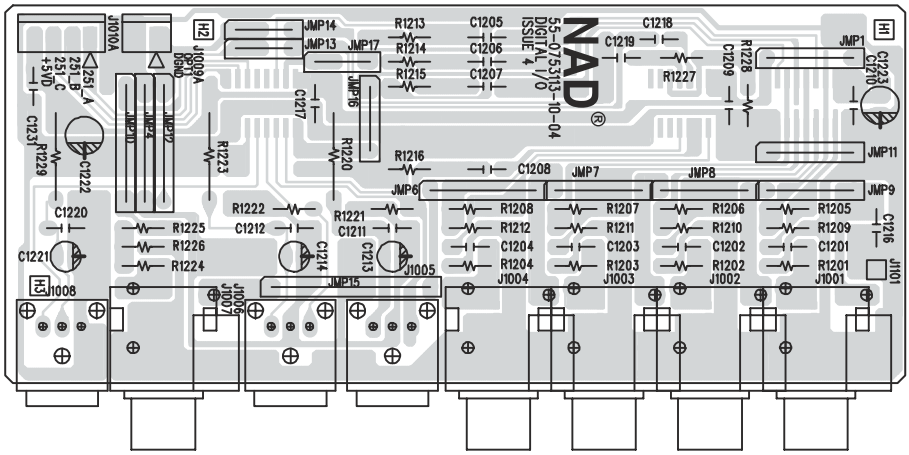
COMPONENT VIDEO BOARD - COMPONENT SIDE



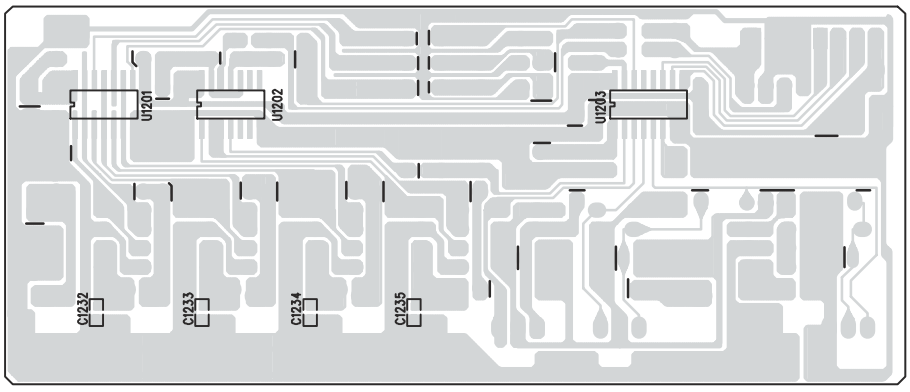
COMPONENT VIDEO BOARD - COPPER SIDE



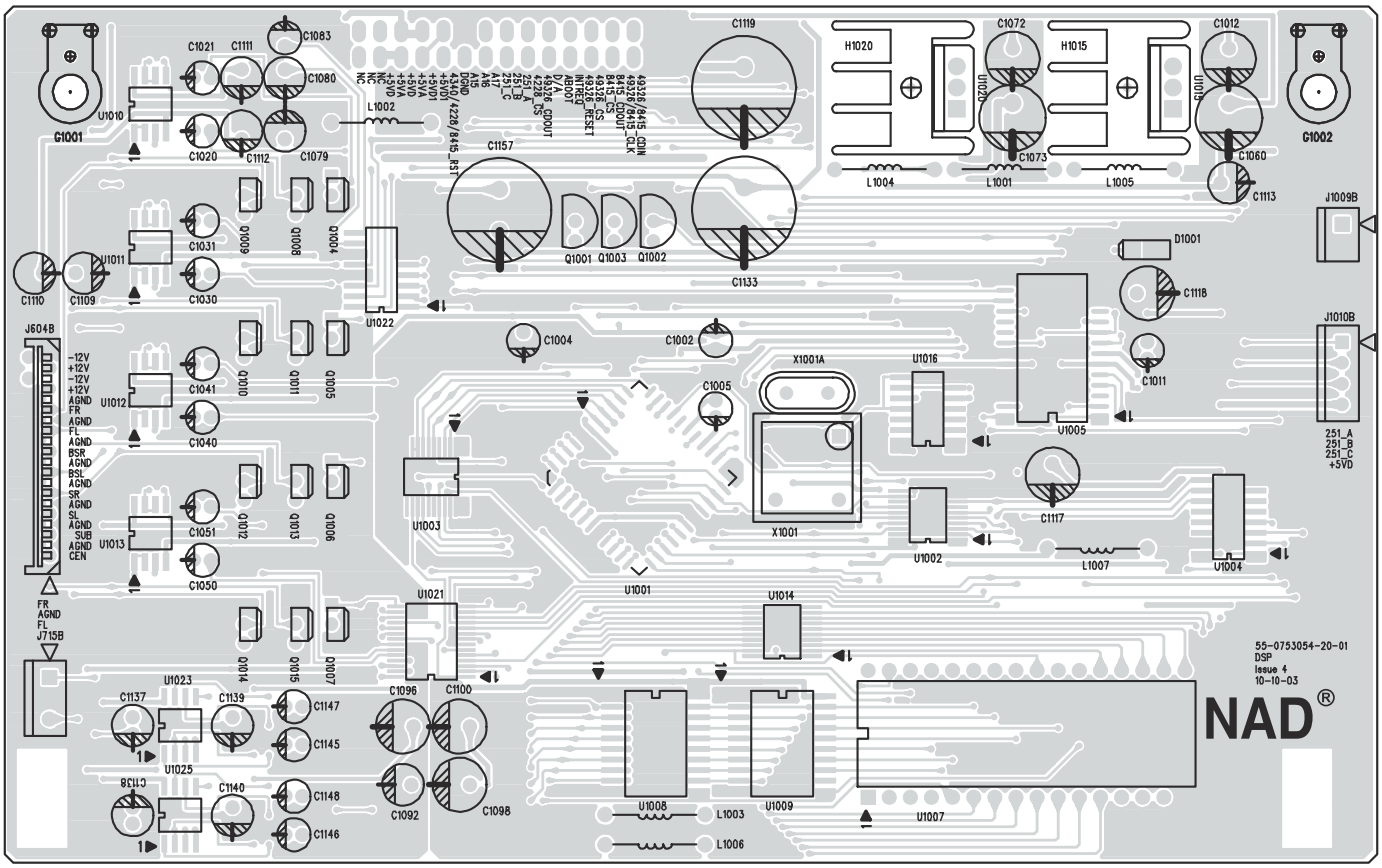
DIGITAL BOARD - COMPONENT SIDE SIDE



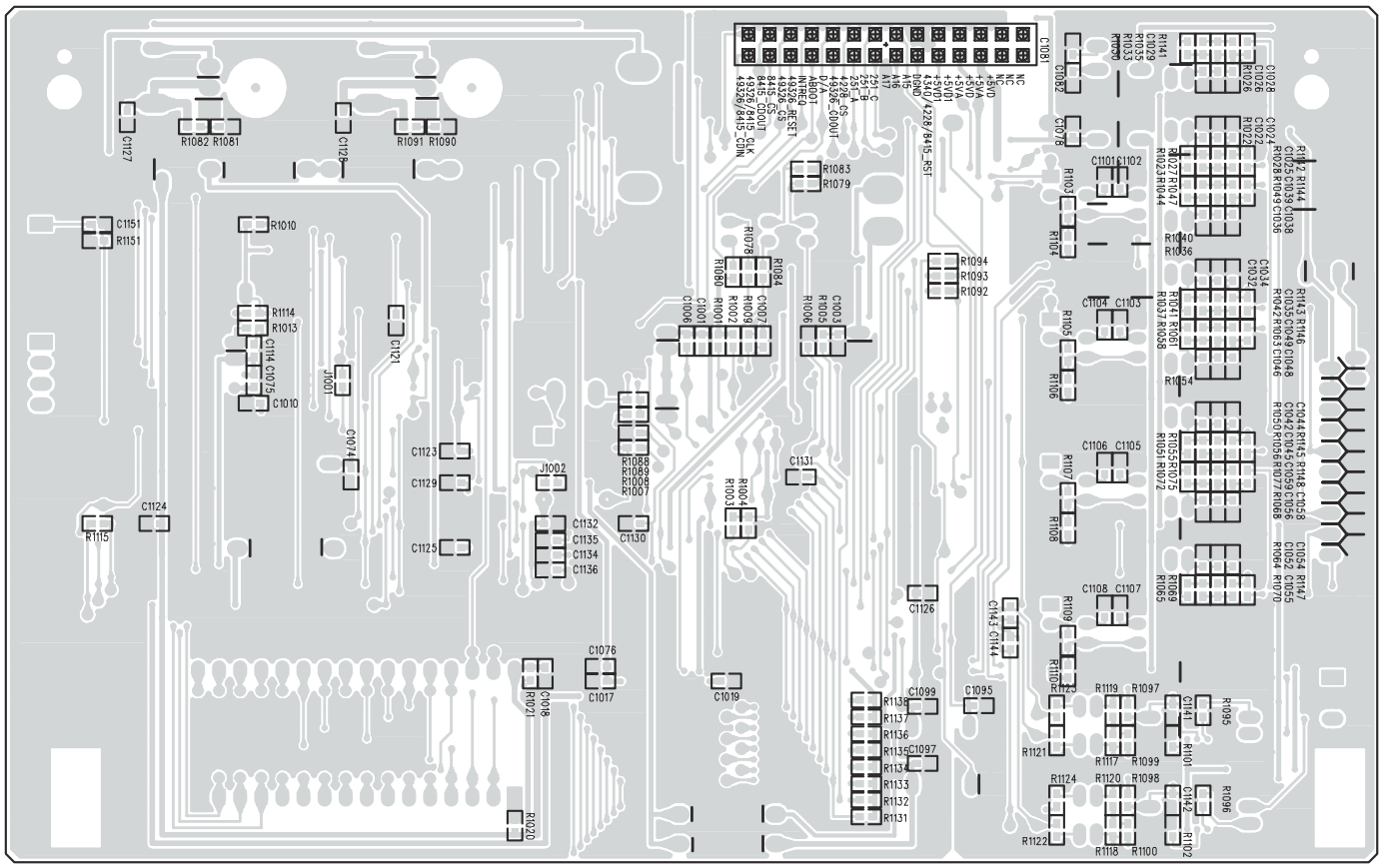
DIGITAL BOARD - COPPER SIDE



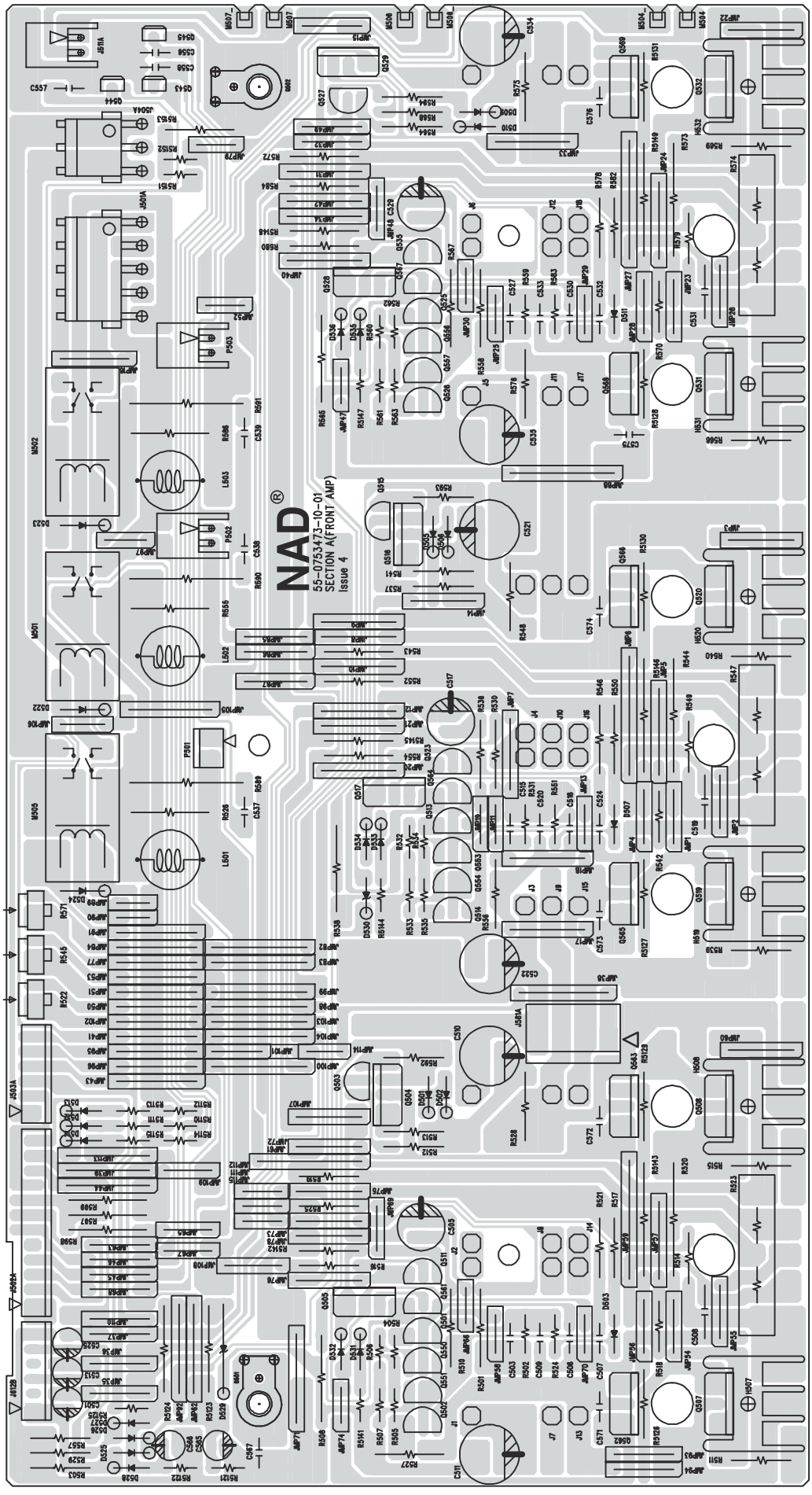
DSP BOARD - COMPONENT SIDE



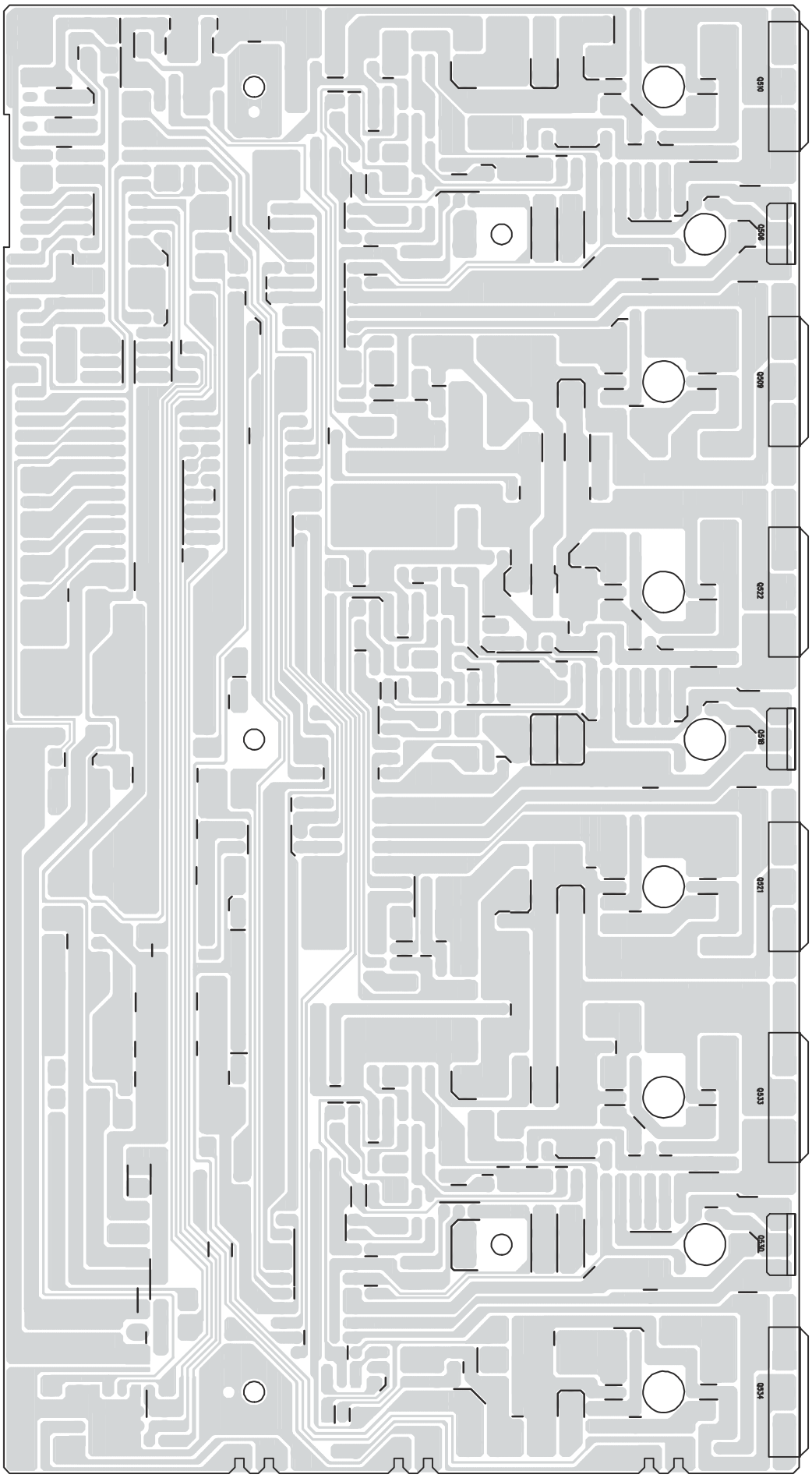
DSP BOARD - COPPER SIDE



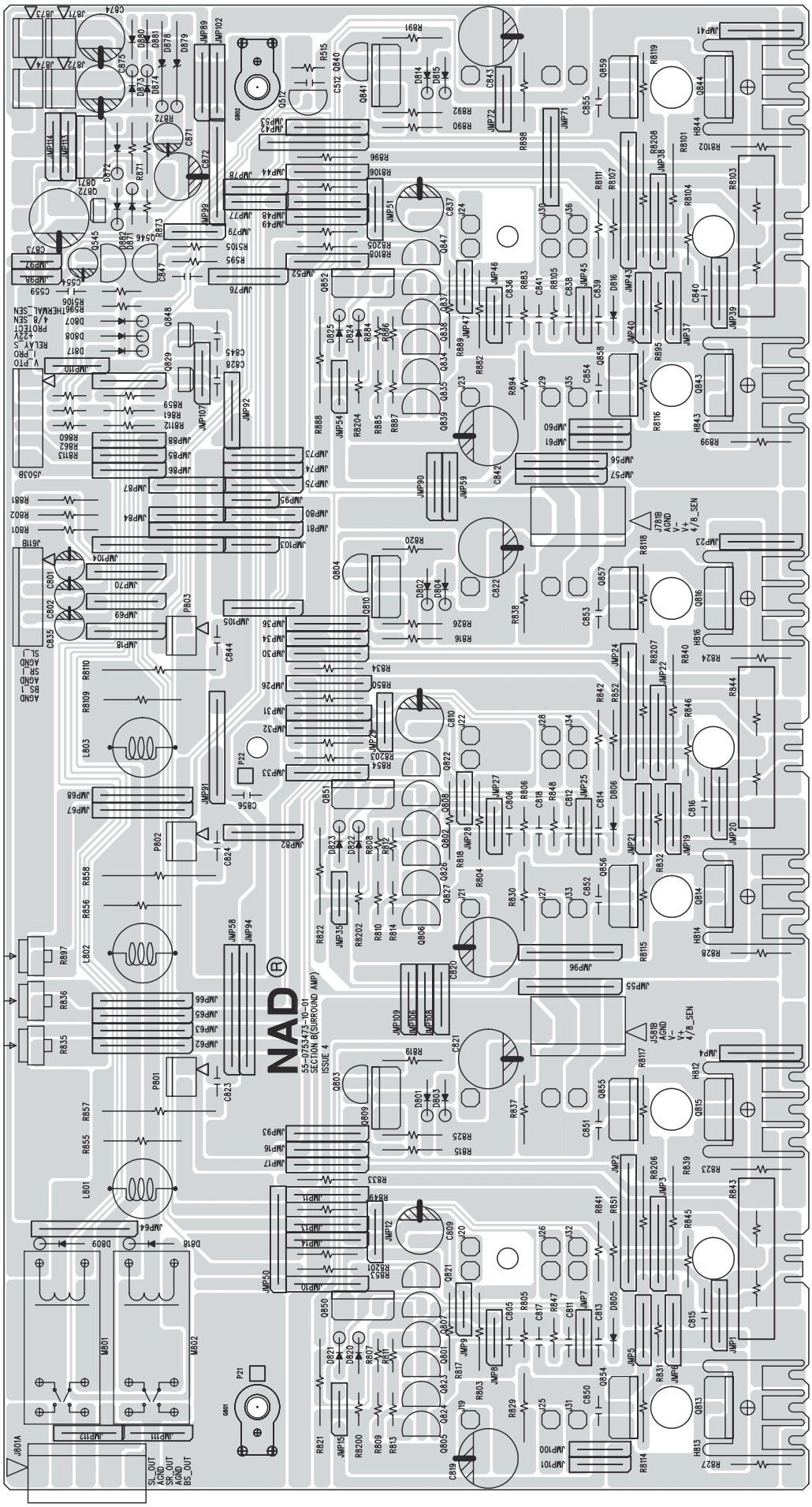
FRONT / CENTER AMPLIFIER BOARD - COMPONENT SIDE



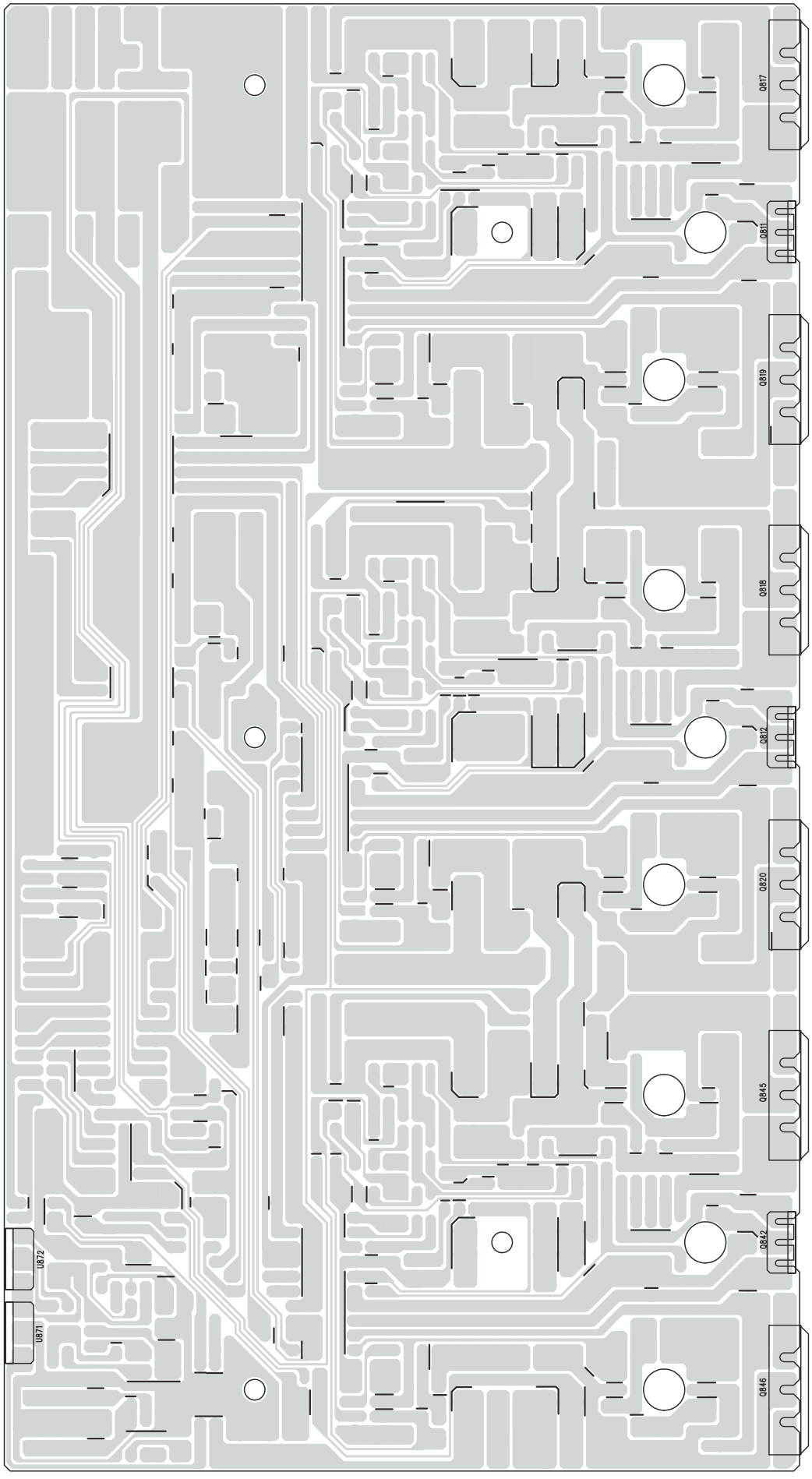
FRONT / CENTER AMPLIFIER BOARD - COPPER SIDE



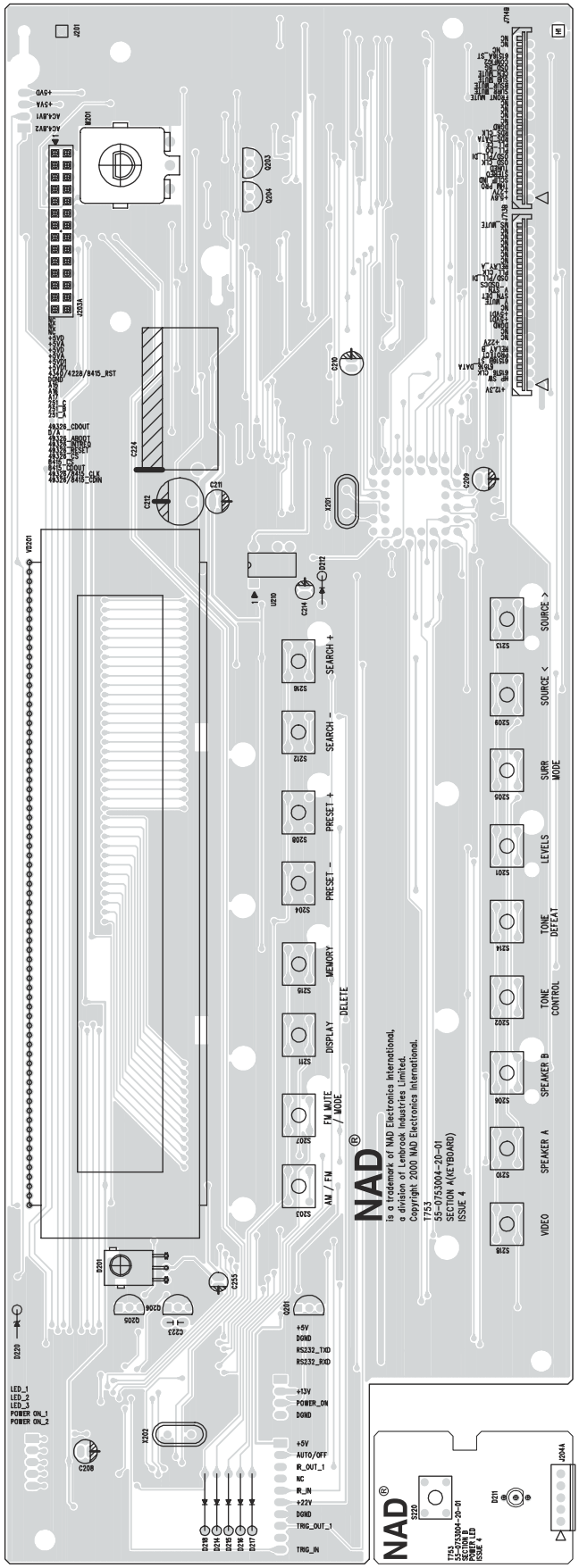
SURROUND AMPLIFIER BOARD - COMPONENT SIDE



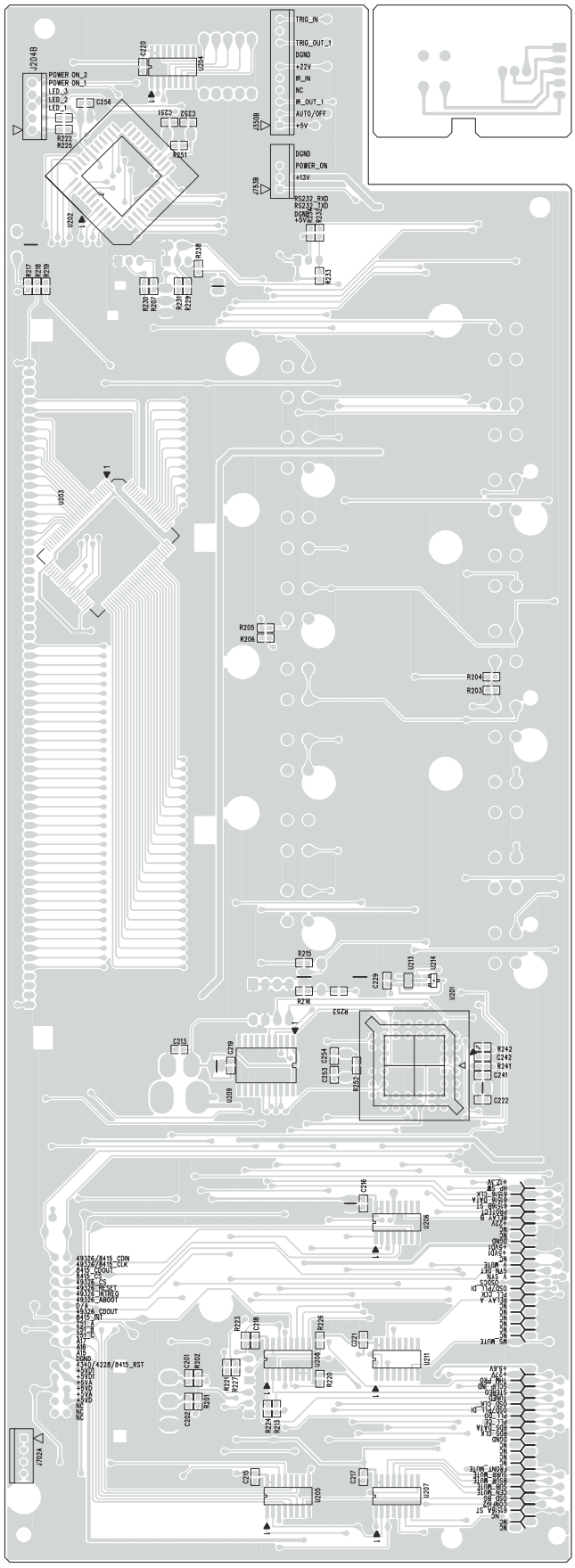
SURROUND AMPLIFIER BOARD - COPPER SIDE



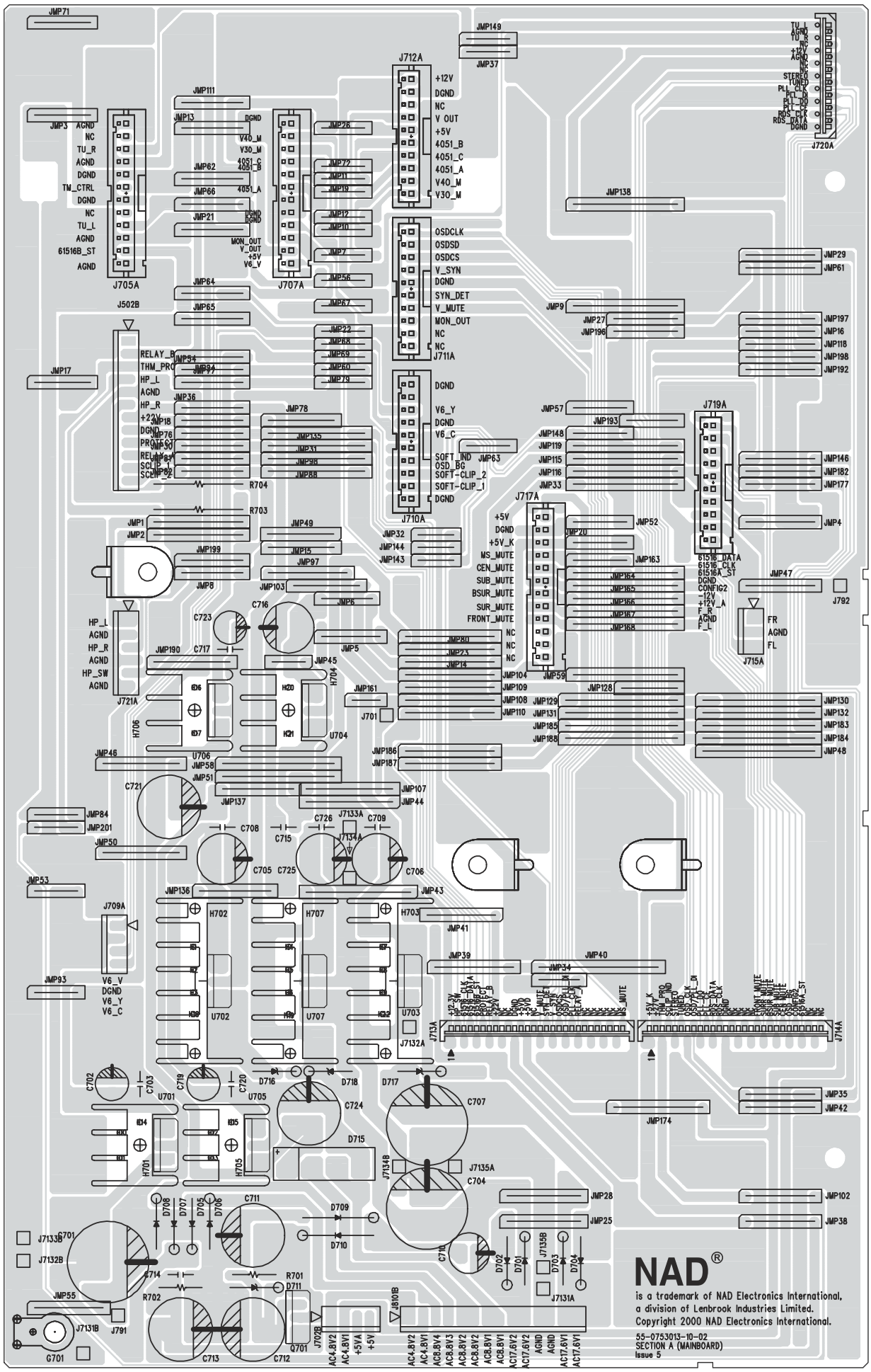
KEY BOARD/POWER SWITCH - COMPONENT SIDE



KEY BOARD/POWER SWITCH - COPPER SIDE



MAIN BOARD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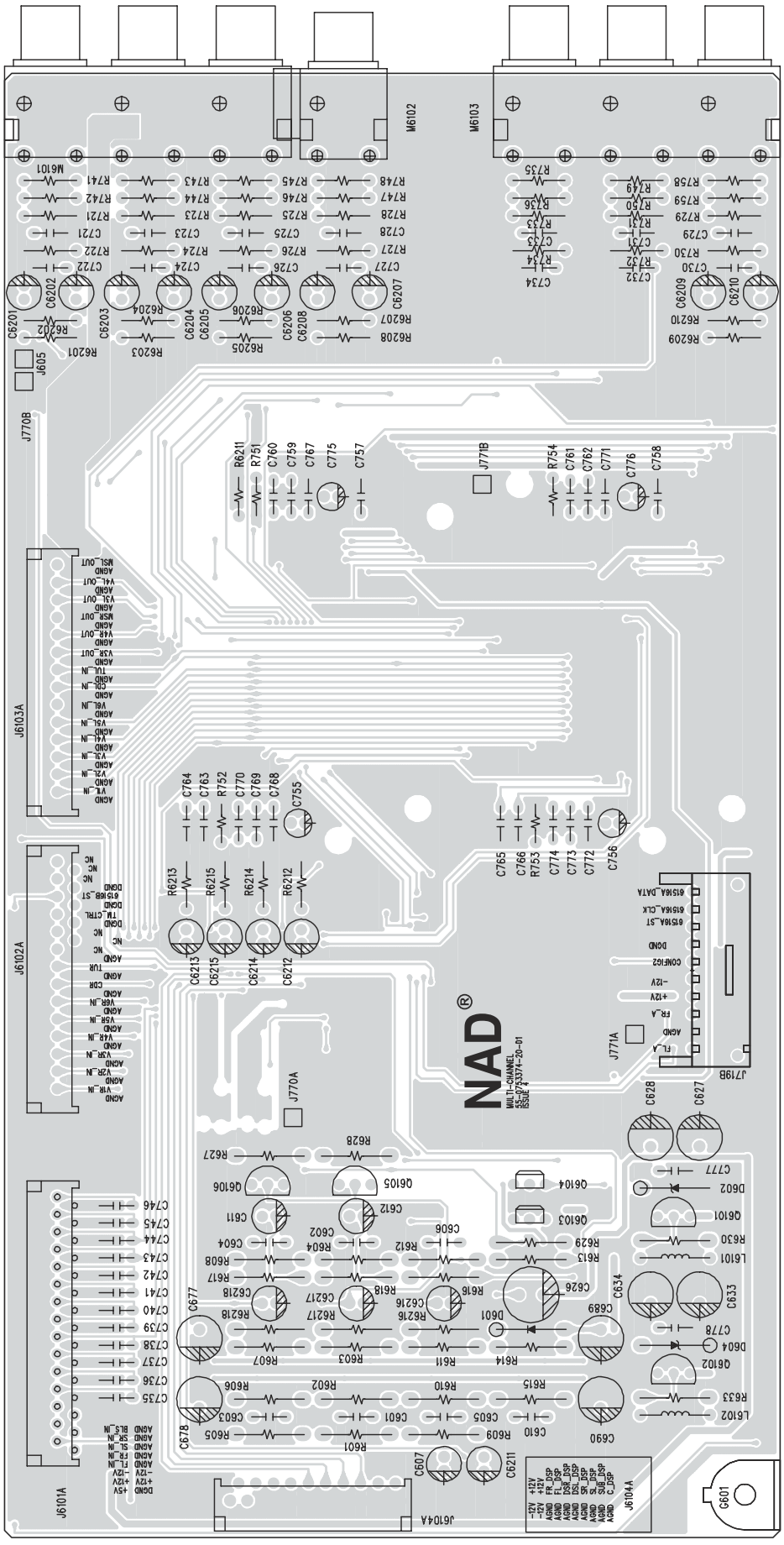
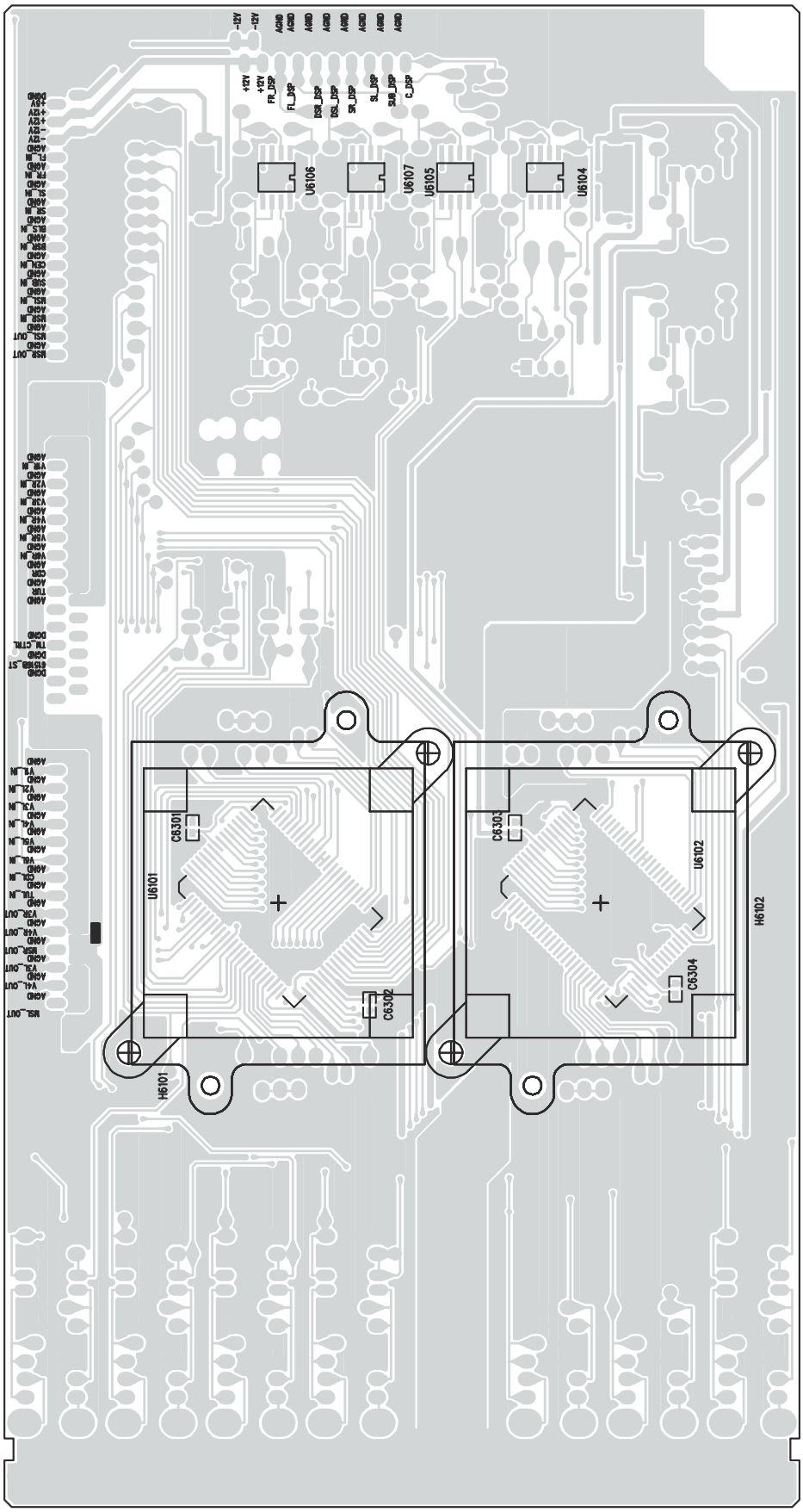
55-0753013-10-02
SECTION A (MAINBOARD)
Issue 5

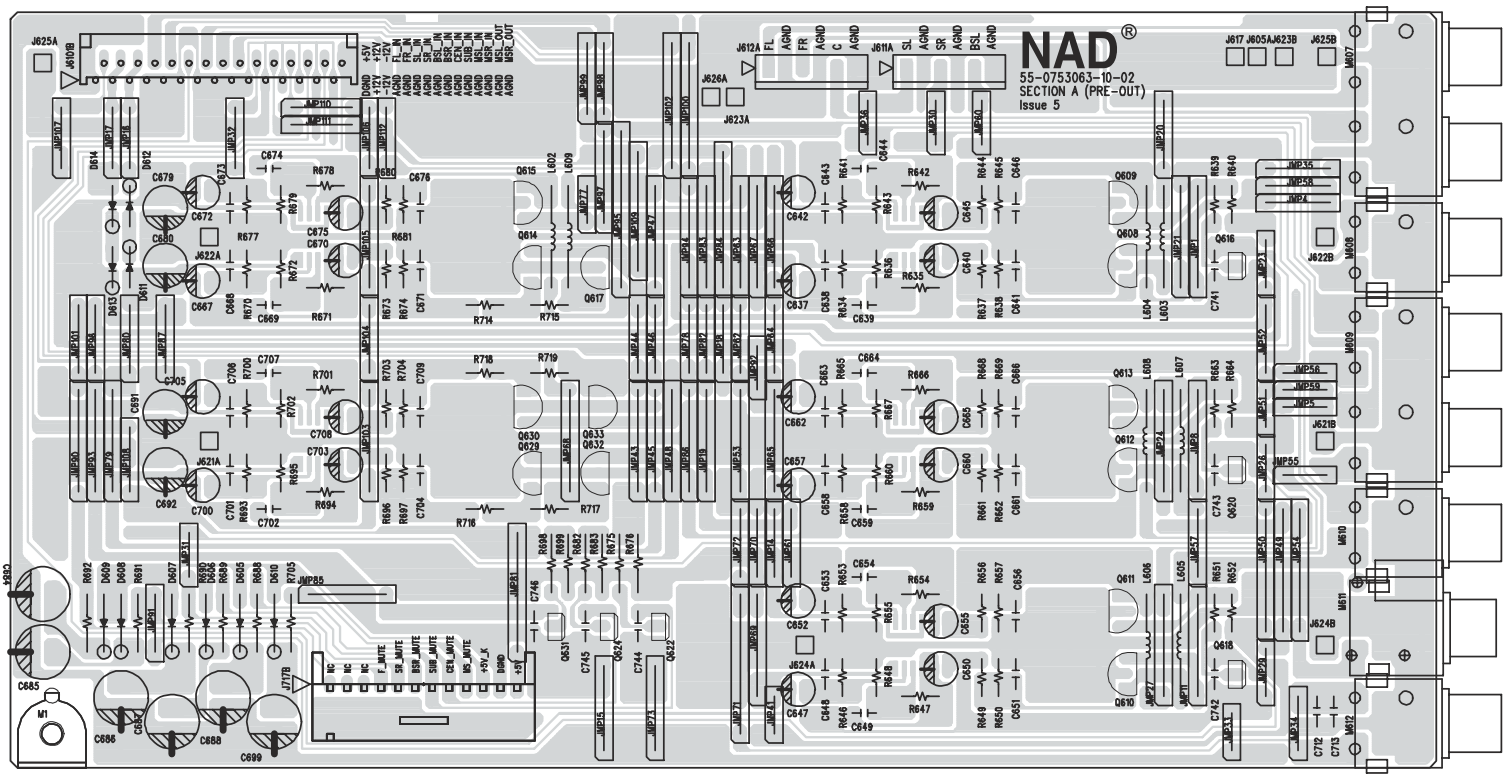
MULTI-CHANNEL BOARD - COMPONENT SIDE



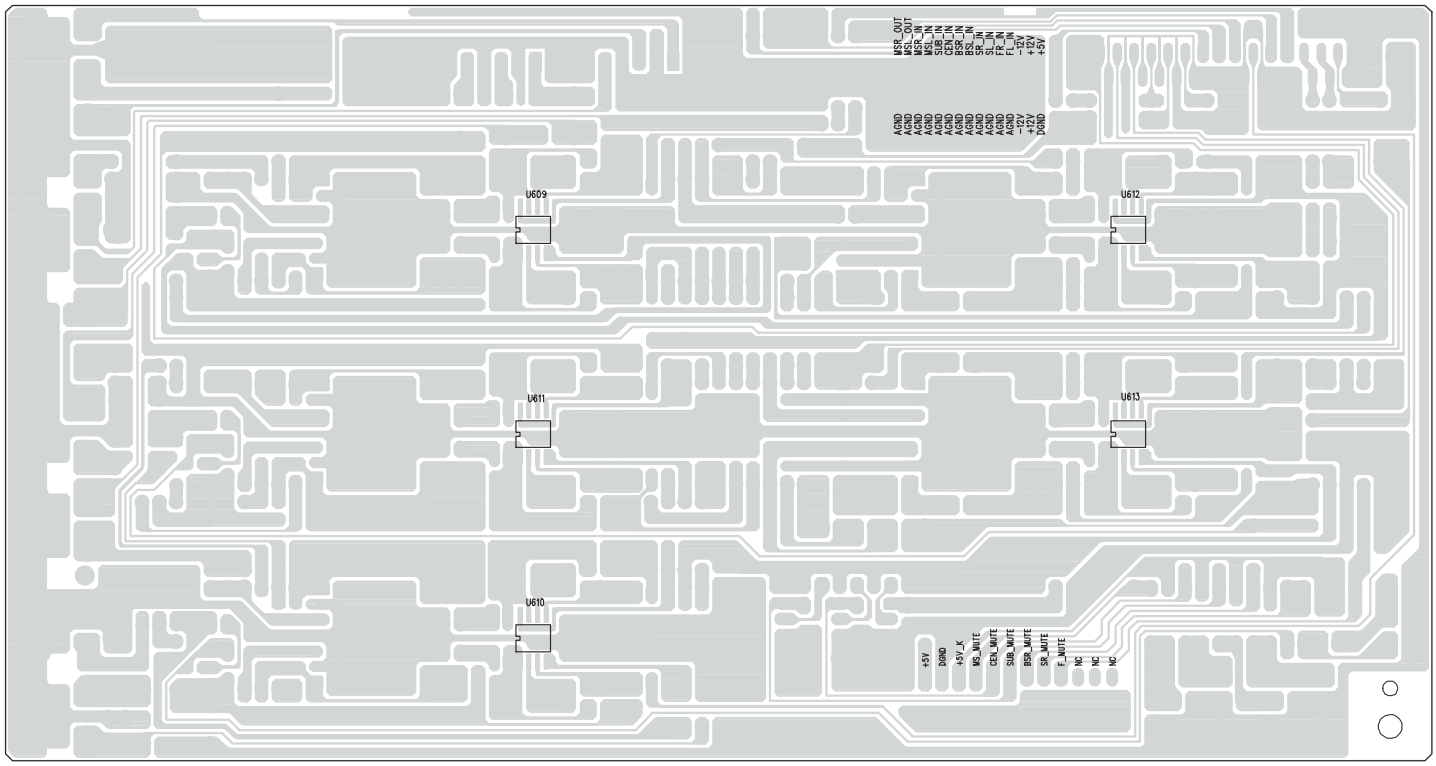
MULTI-CHANNEL BOARD - COPPER SIDE



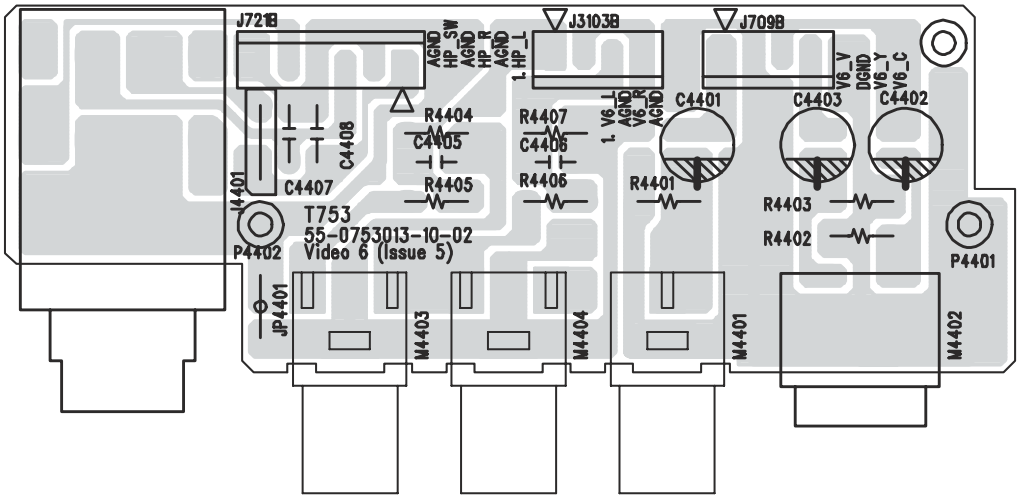
PRE-OUT BOARD - COMPONENT SIDE



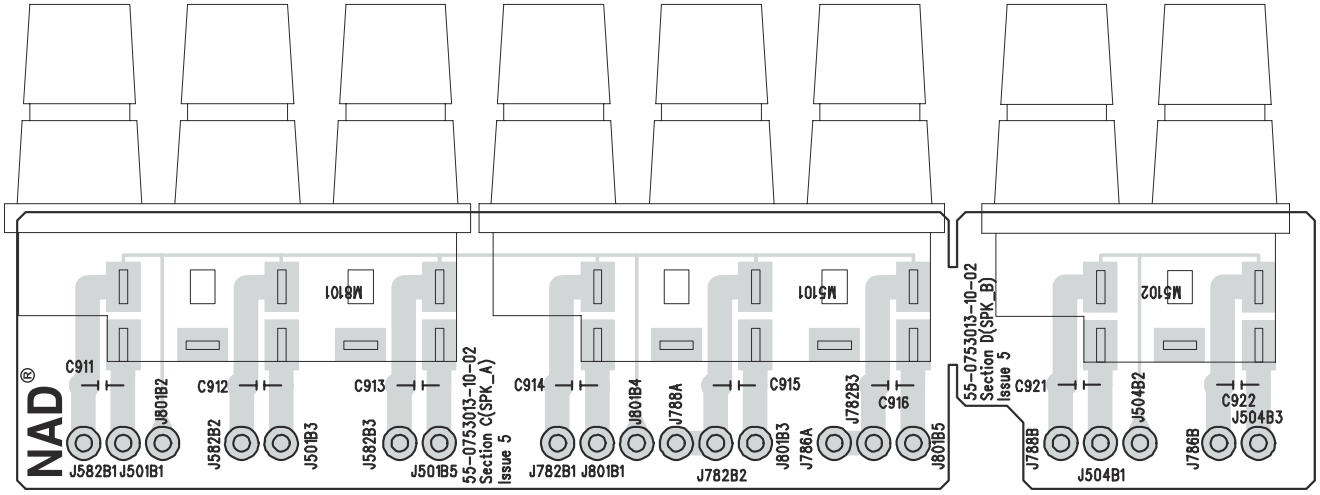
PRE-OUT BOARD - COPPER SIDE



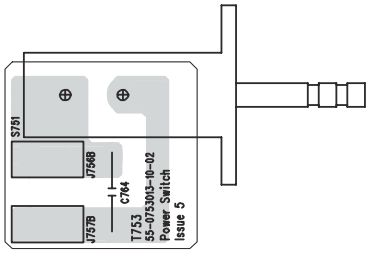
VIDEO 6 BOARD

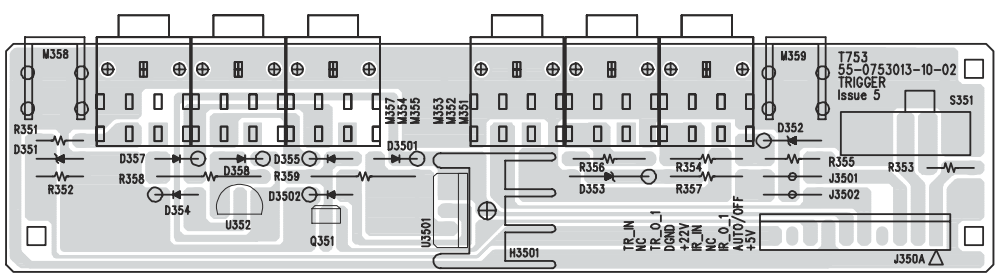


SPEAKER TERMINAL BOARD

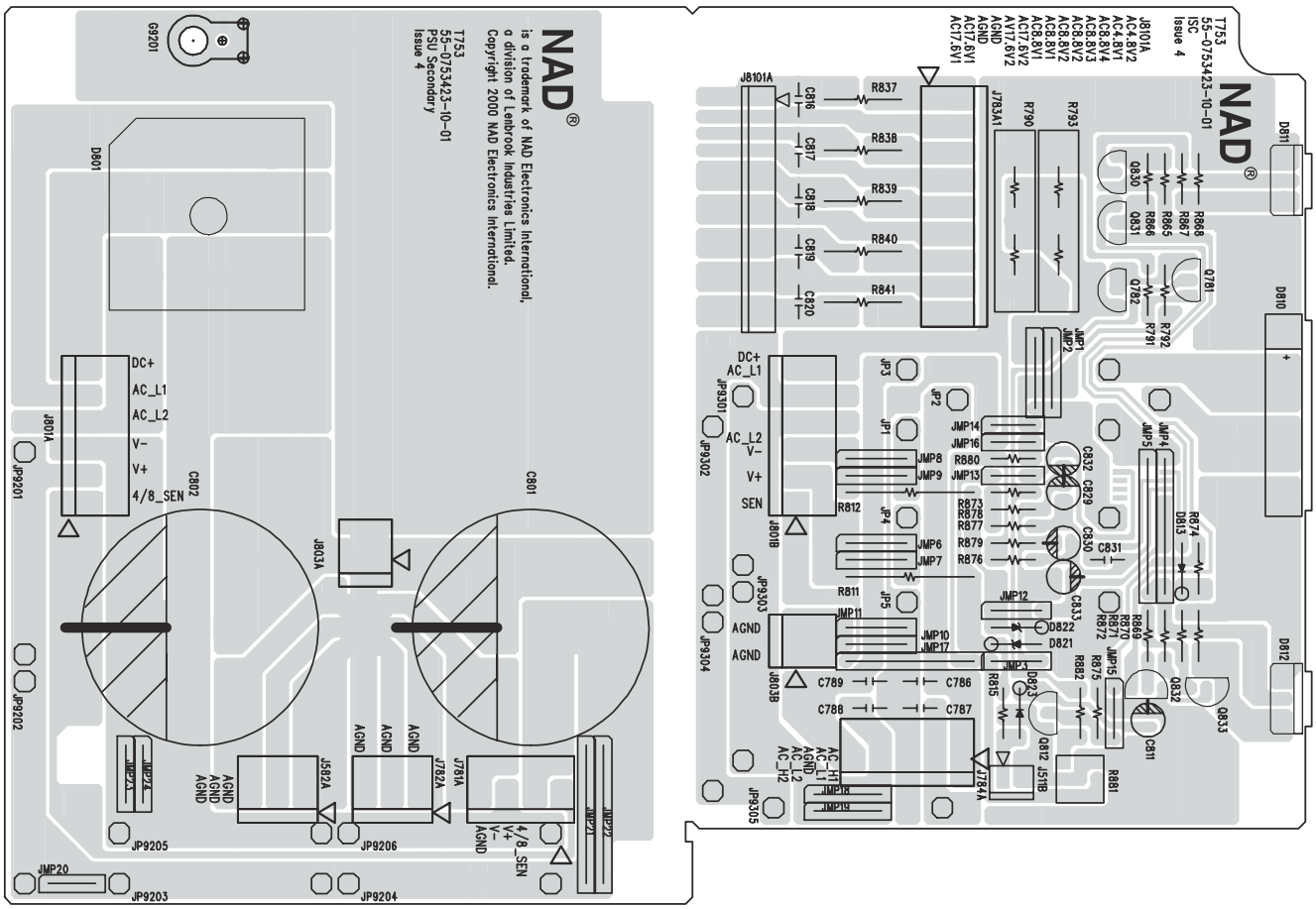


POWER SWITCH / TRIGGER BOARD

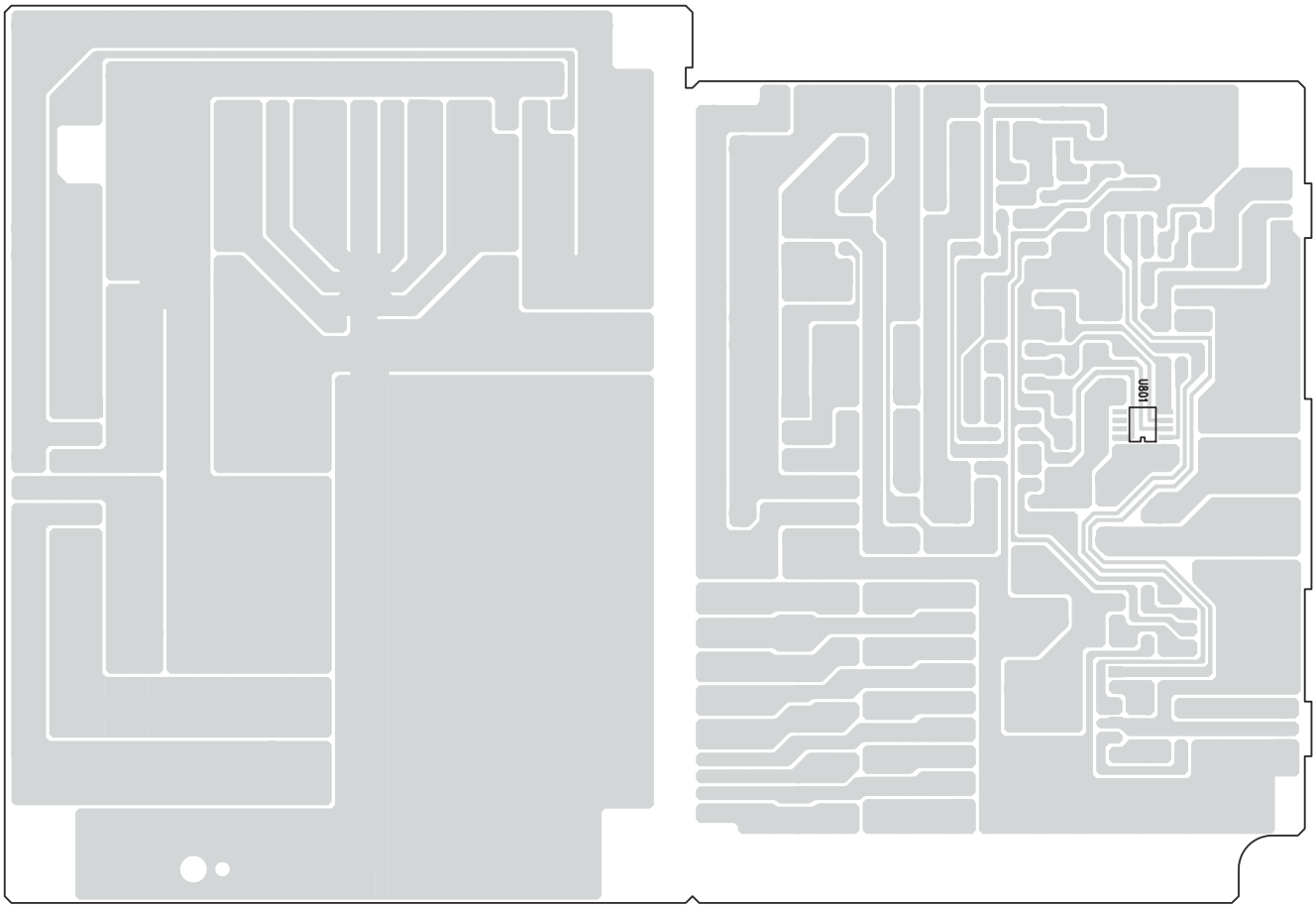




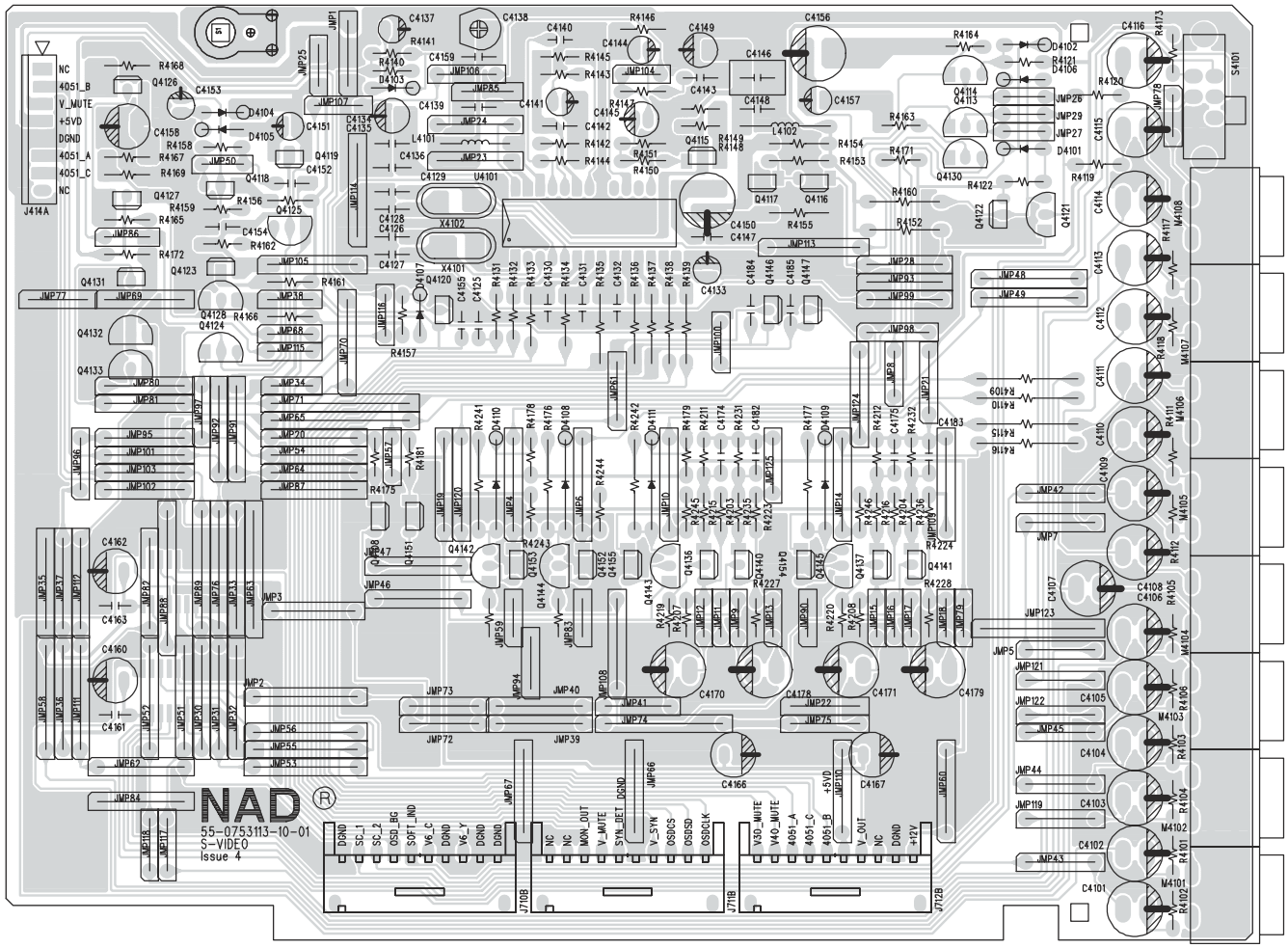
SECONDARY / ISC BOARD - COMPONENT SIDE



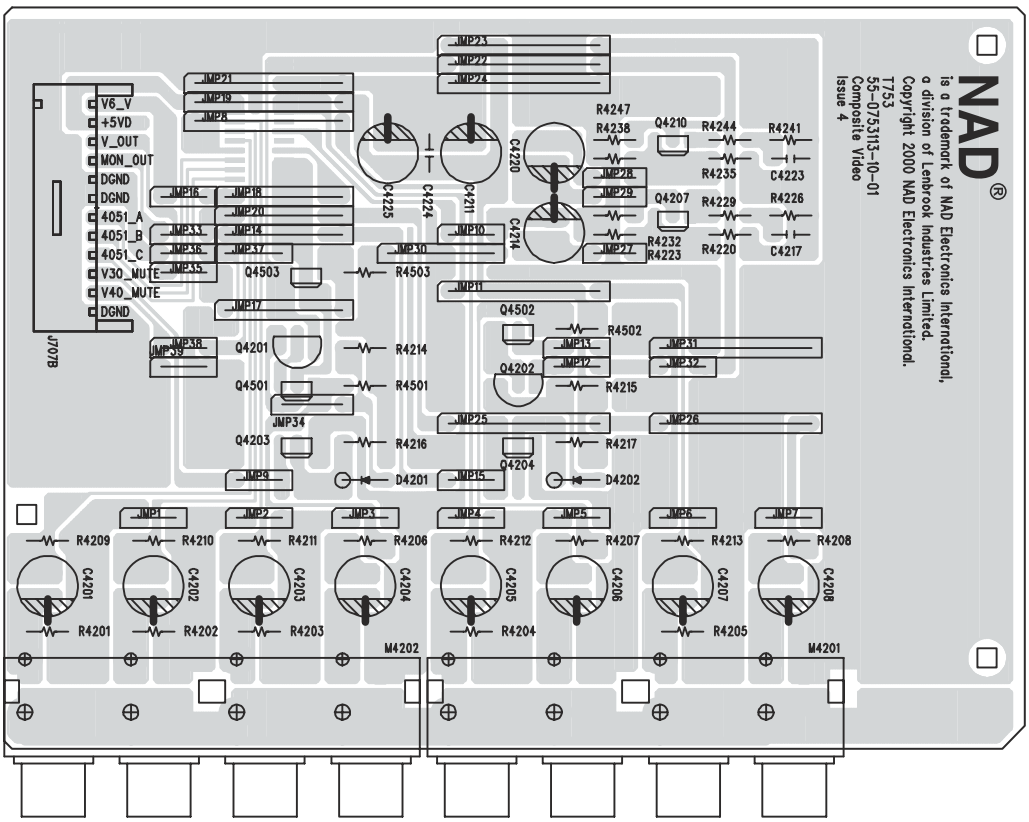
SECONDARY / ISC BOARD - COPPER SIDE



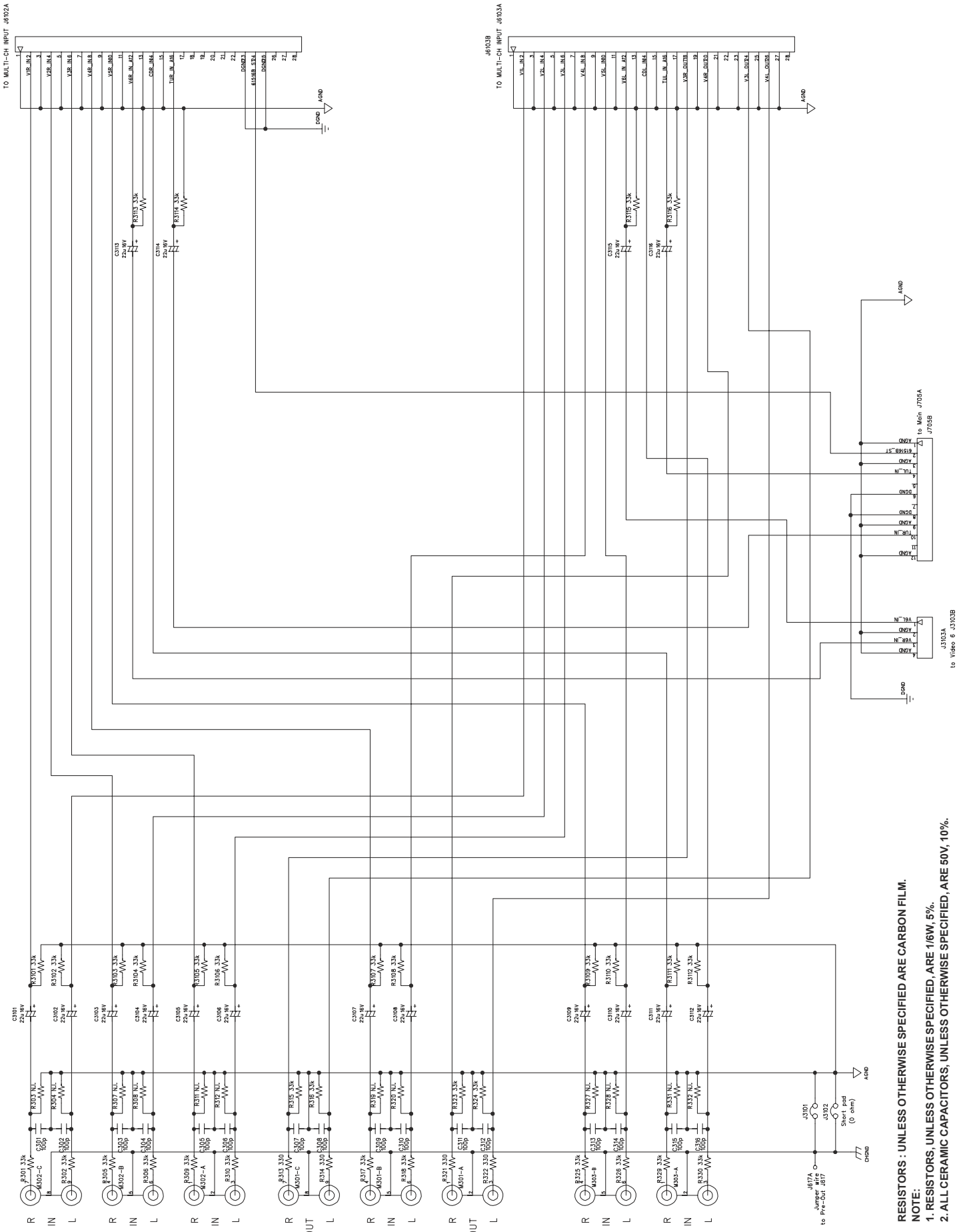
S-VIDEO BOARD



COMPOSITE VIDEO BOARD

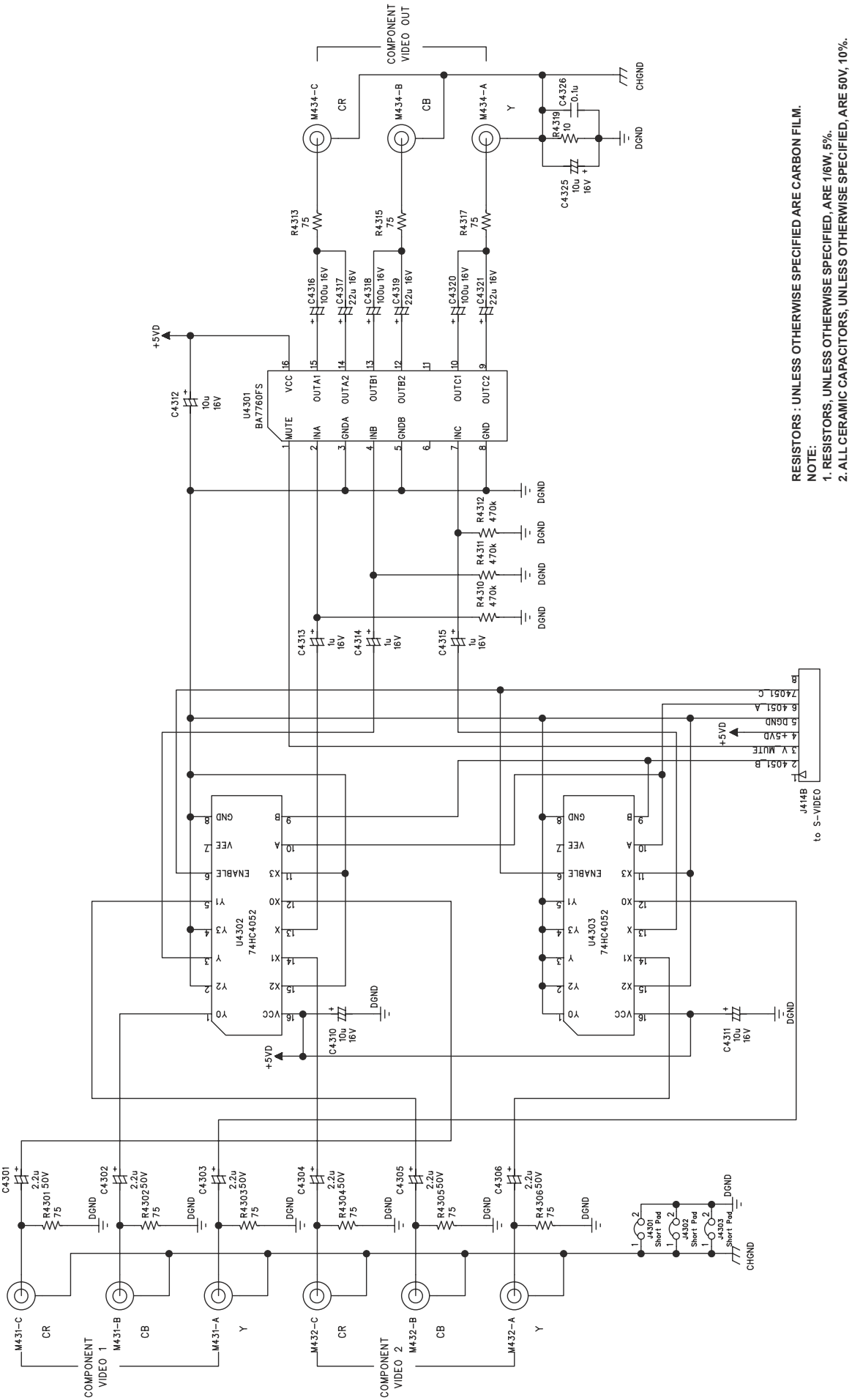


SCHEMATIC DIAGRAM
AUDIO SWITCH



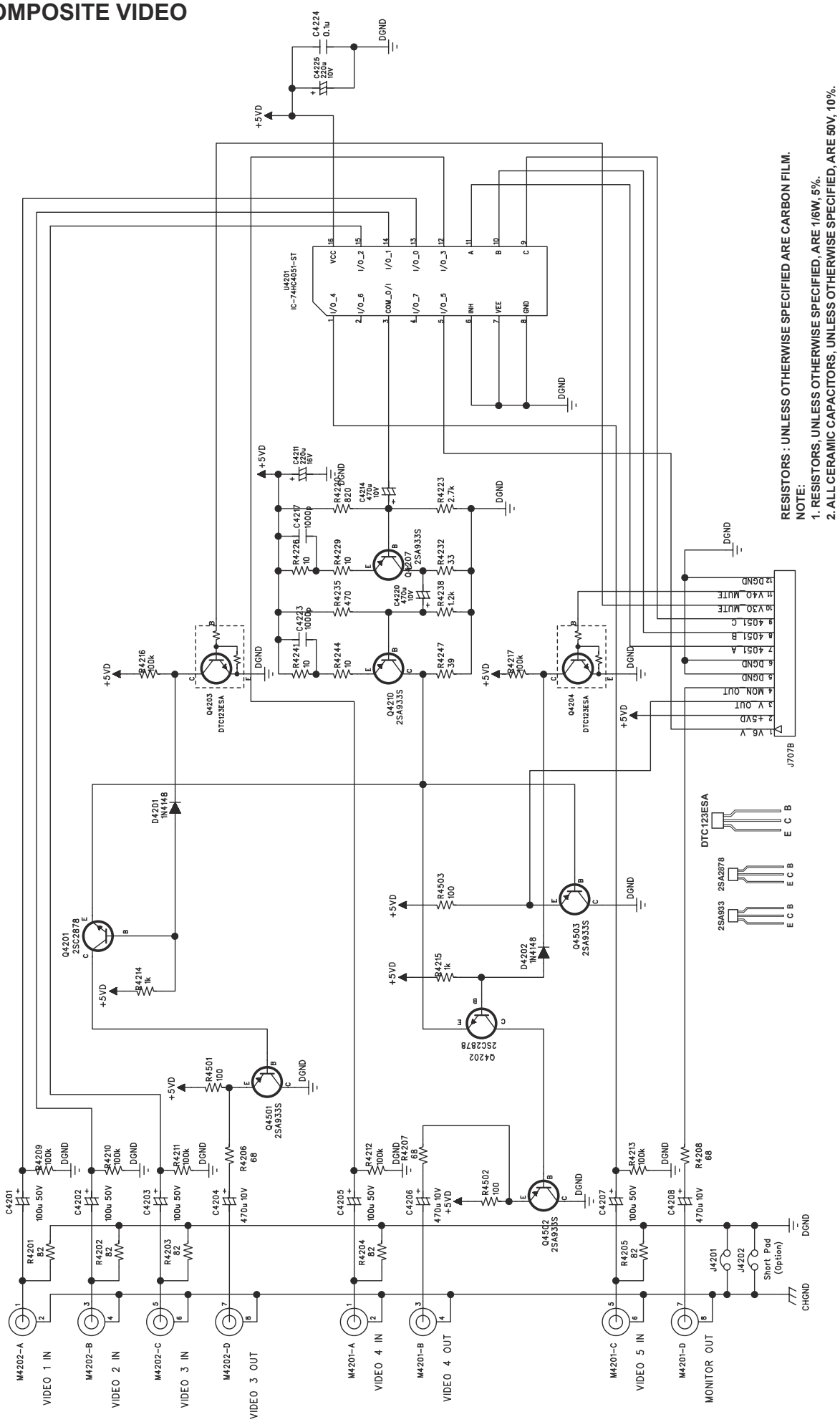
RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

COMPONENT VIDEO

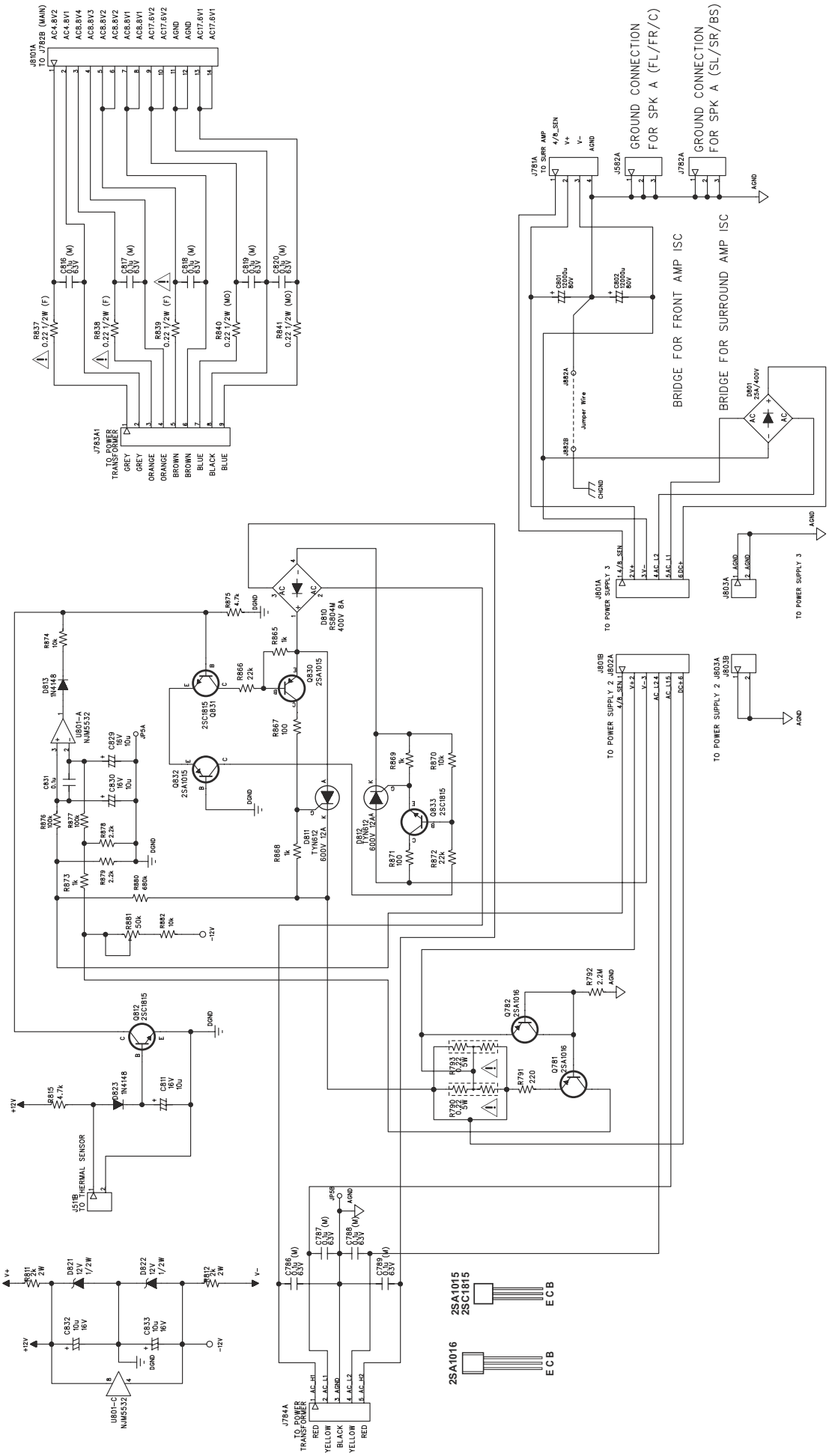


RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

COMPOSITE VIDEO

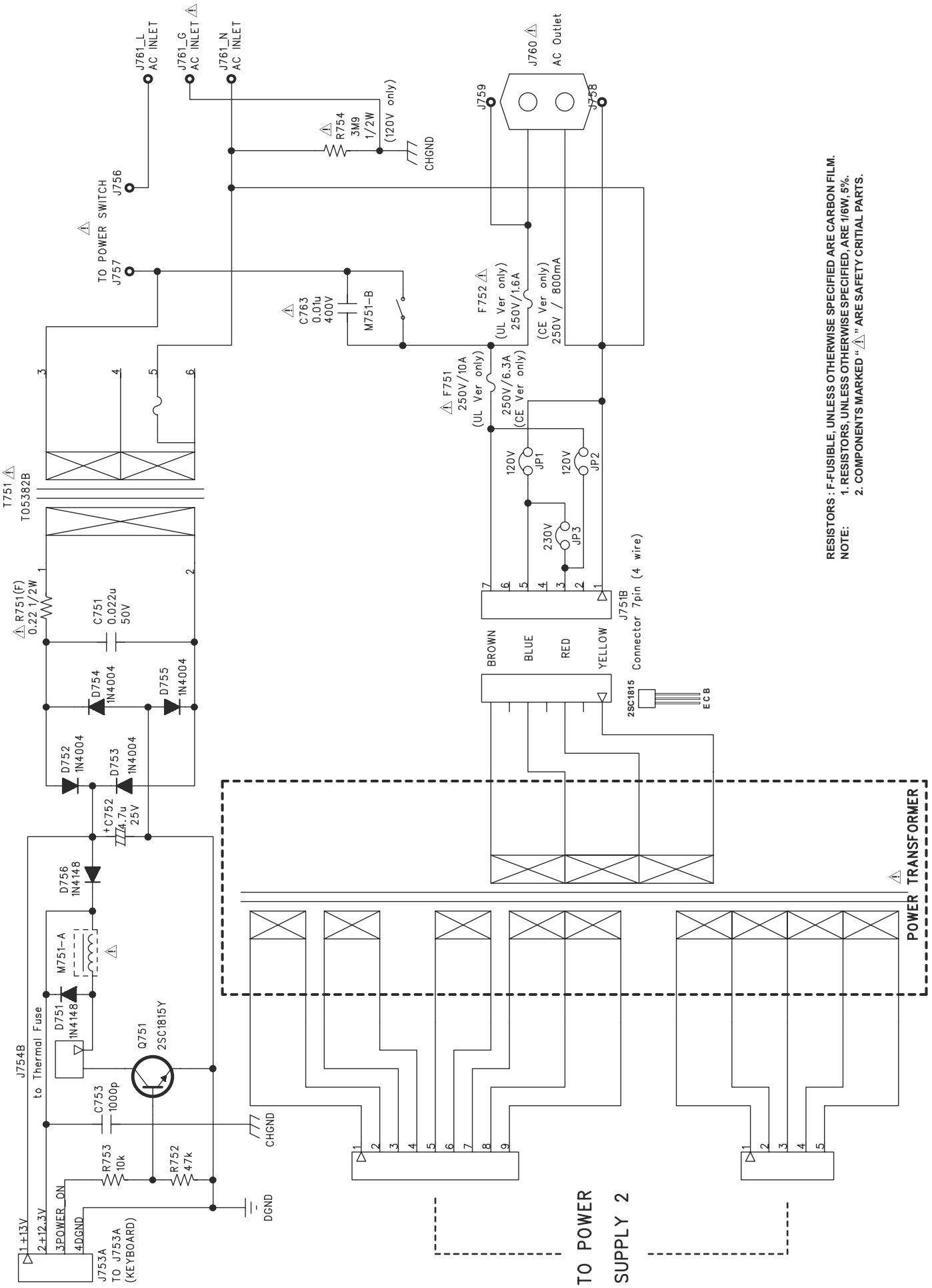


POWER SUPPLY (SECONDARY)



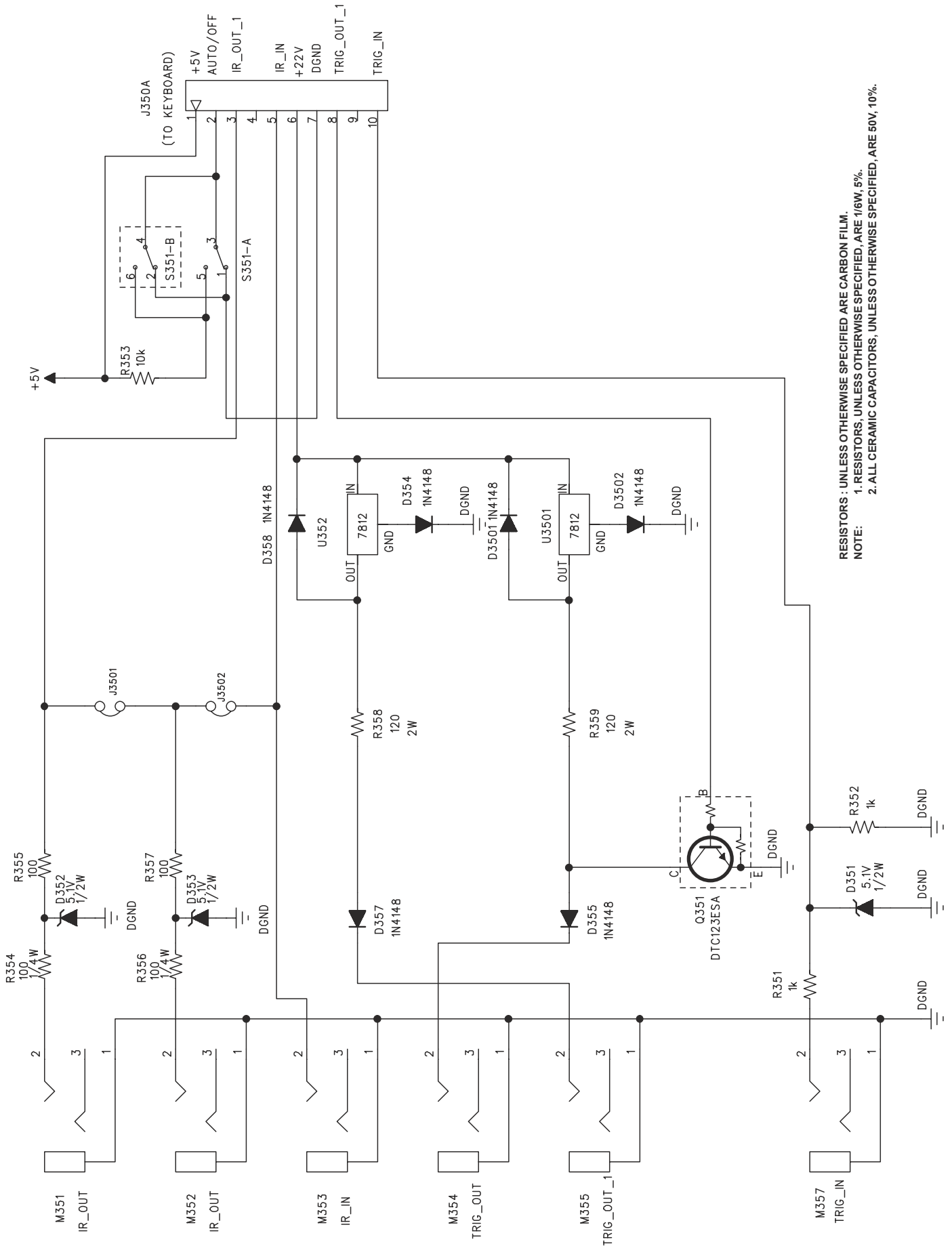
NOTE: **1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.**
2. COMPONENTS MARKED "⚠" ARE SAFETY CRITIAL PARTS.

POWER SUPPLY (STAND BY)

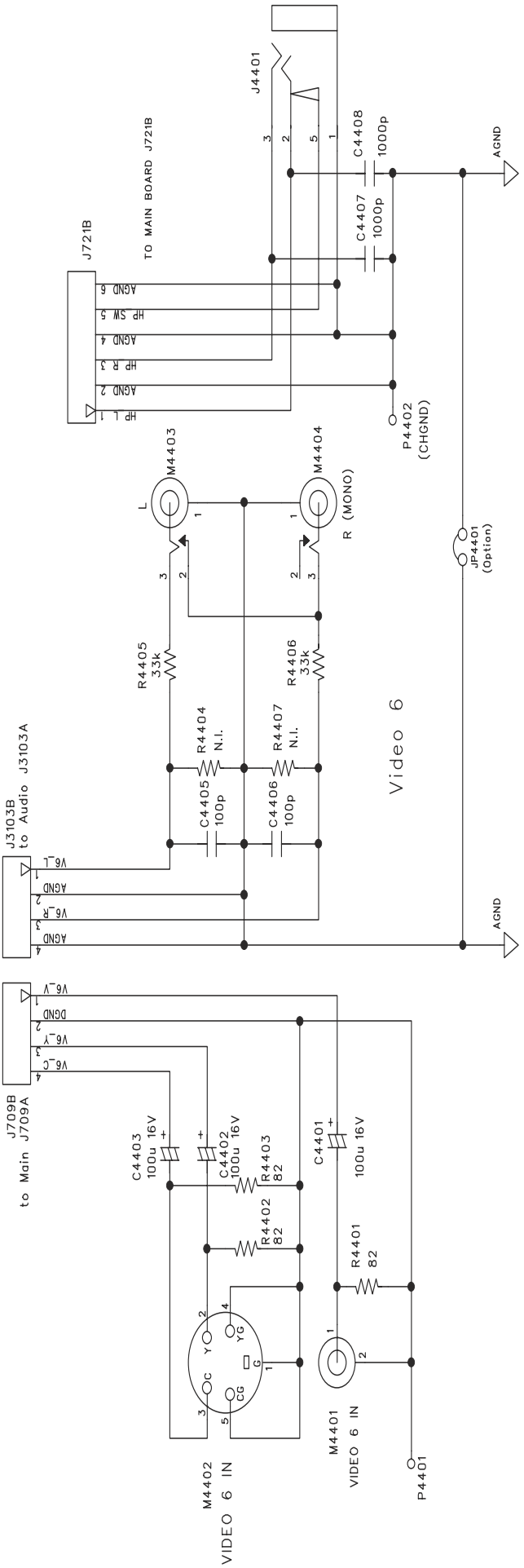


RESISTORS : F-FUSIBLE, UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. COMPONENTS MARKED "⚠" ARE SAFETY CRITIAL PARTS.

TRIGGER

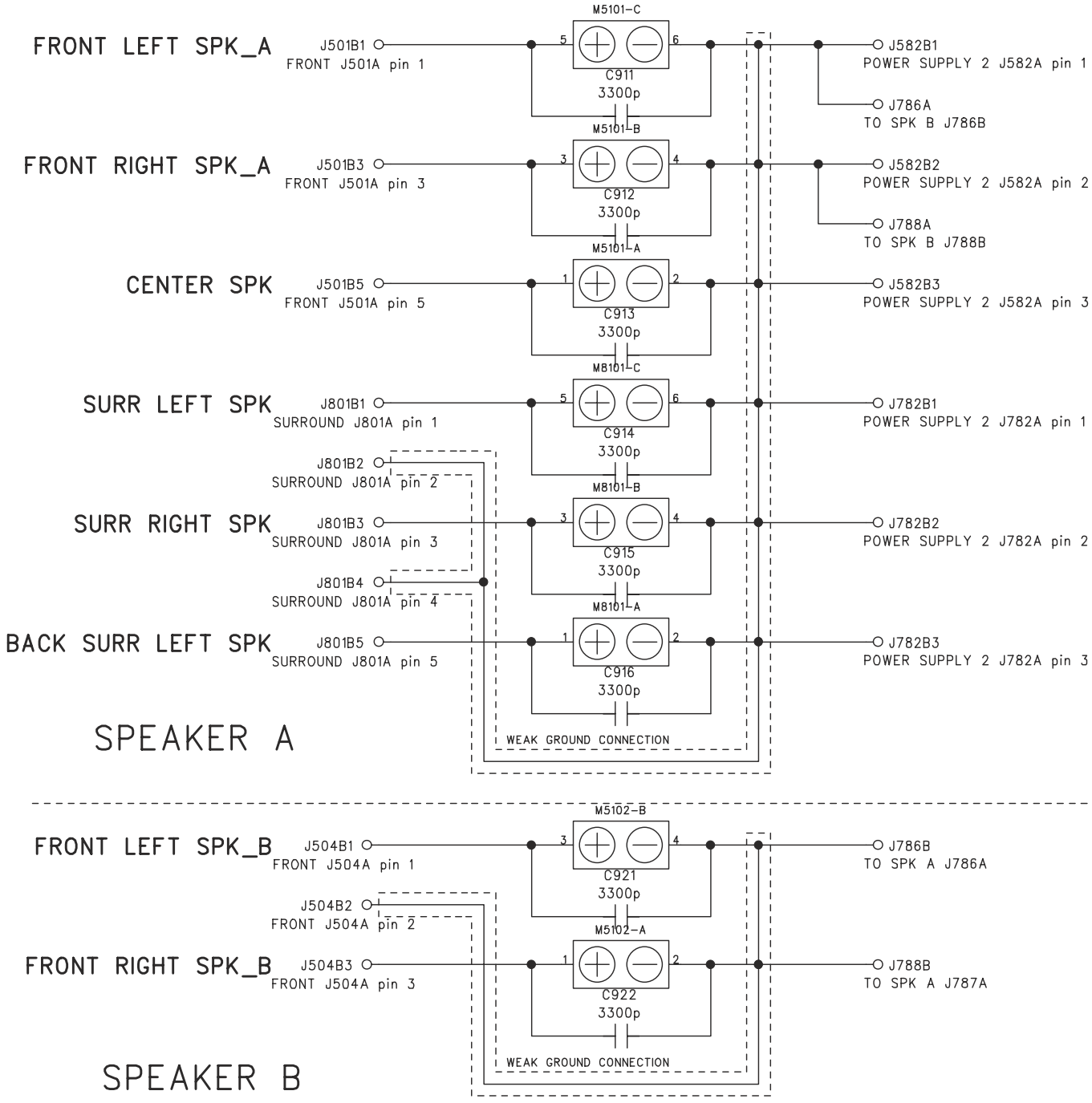

J350A
(TO KEYBOARD)
+5V
AUTO/OFF
IR_OUT_1
IR_IN
+22V
DGND
TRIG_OUT_1
TRIG_IN
S351-A
S351-B
R353
10k
+5V
D358 1N4148
U352
7812
IN
GND
OUT
D354
1N4148
DGND
D3501 1N4148
U3501
7812
D3502
1N4148
J3501
J3502
R358
120
2W
R359
120
2W
R355
100
D352
5.1V
1/2W
R357
100
D353
5.1V
1/2W
R354
100
1/4W
R356
100
1/4W
D357
1N4148
D355
1N4148
Q351
DTC123ESA
R352
1k
D351
5.1V
1/2W
R351
1k
M351
IR_OUT
M352
IR_OUT
M353
IR_IN
M354
TRIG_OUT
M355
TRIG_OUT_1
M357
TRIG_IN
RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

VIDEO 6

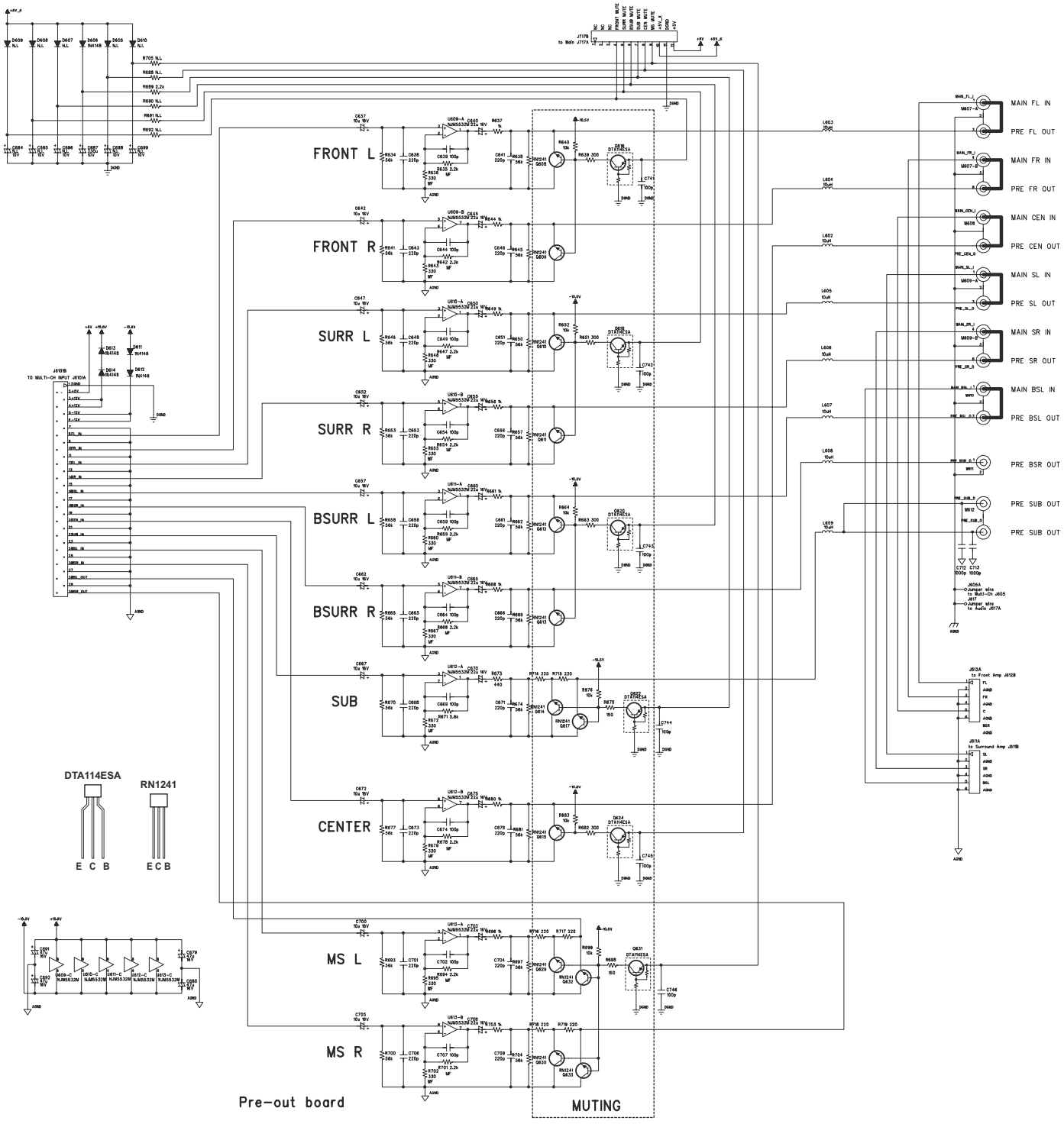


RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

SPEAKER A & B


FRONT LEFT SPK_A
J501B1
FRONT J501A pin 1
M5101-C
C911
3300p
J582B1
POWER SUPPLY 2 J582A pin 1
J786A
TO SPK B J786B
FRONT RIGHT SPK_A
J501B3
FRONT J501A pin 3
M5101-B
C912
3300p
J582B2
POWER SUPPLY 2 J582A pin 2
J788A
TO SPK B J788B
CENTER SPK
J501B5
FRONT J501A pin 5
M5101-A
C913
3300p
J582B3
POWER SUPPLY 2 J582A pin 3
SURR LEFT SPK
J801B1
SURROUND J801A pin 1
M8101-C
C914
3300p
J782B1
POWER SUPPLY 2 J782A pin 1
J801B2
SURROUND J801A pin 2
SURR RIGHT SPK
J801B3
SURROUND J801A pin 3
M8101-B
C915
3300p
J782B2
POWER SUPPLY 2 J782A pin 2
J801B4
SURROUND J801A pin 4
BACK SURR LEFT SPK
J801B5
SURROUND J801A pin 5
M8101-A
C916
3300p
J782B3
POWER SUPPLY 2 J782A pin 3
WEAK GROUND CONNECTION
SPEAKER A
FRONT LEFT SPK_B
J504B1
FRONT J504A pin 1
M5102-B
C921
3300p
J786B
TO SPK A J786A
J504B2
FRONT J504A pin 2
FRONT RIGHT SPK_B
J504B3
FRONT J504A pin 3
M5102-A
C922
3300p
J788B
TO SPK A J787A
WEAK GROUND CONNECTION
SPEAKER B

PREOUT

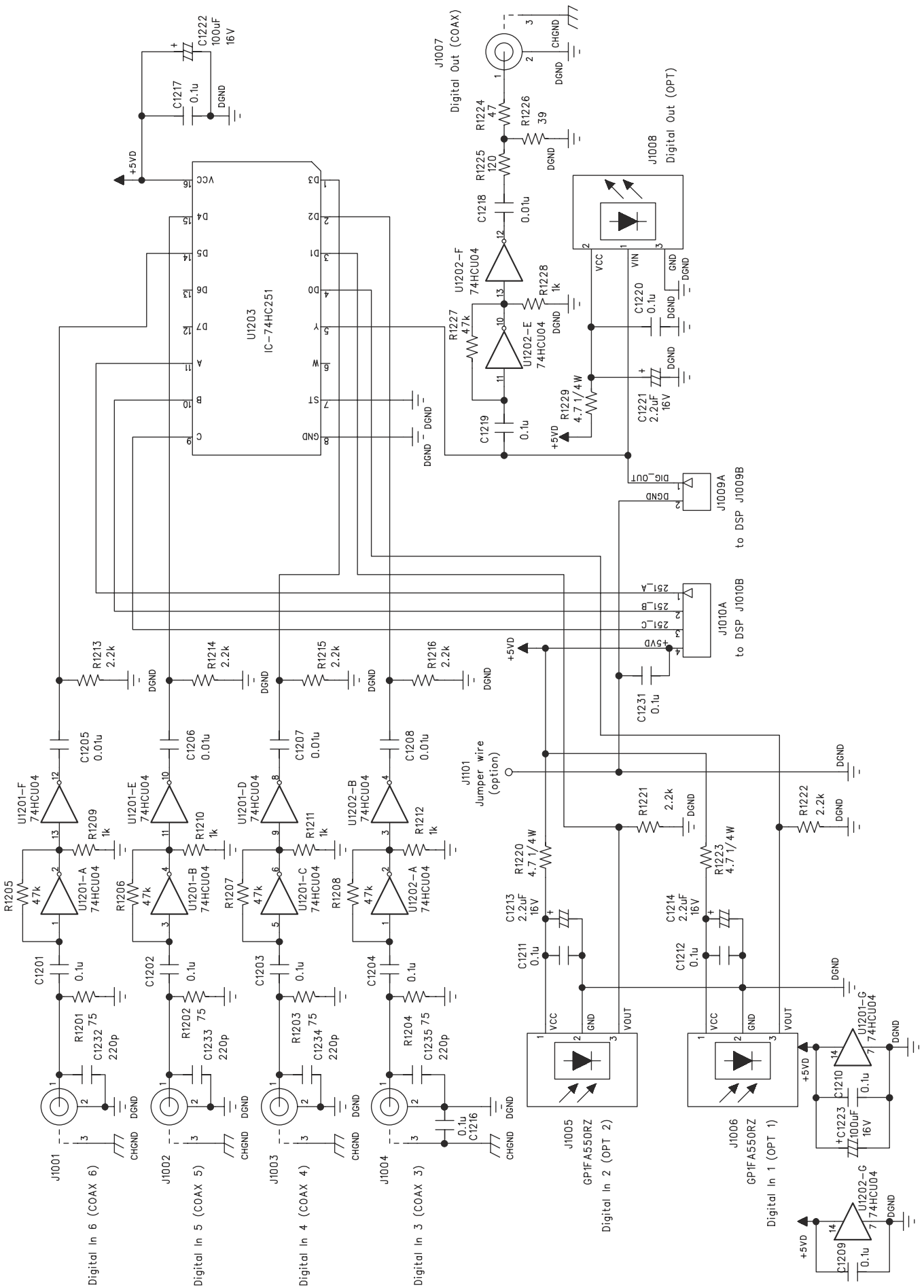


NOTE:

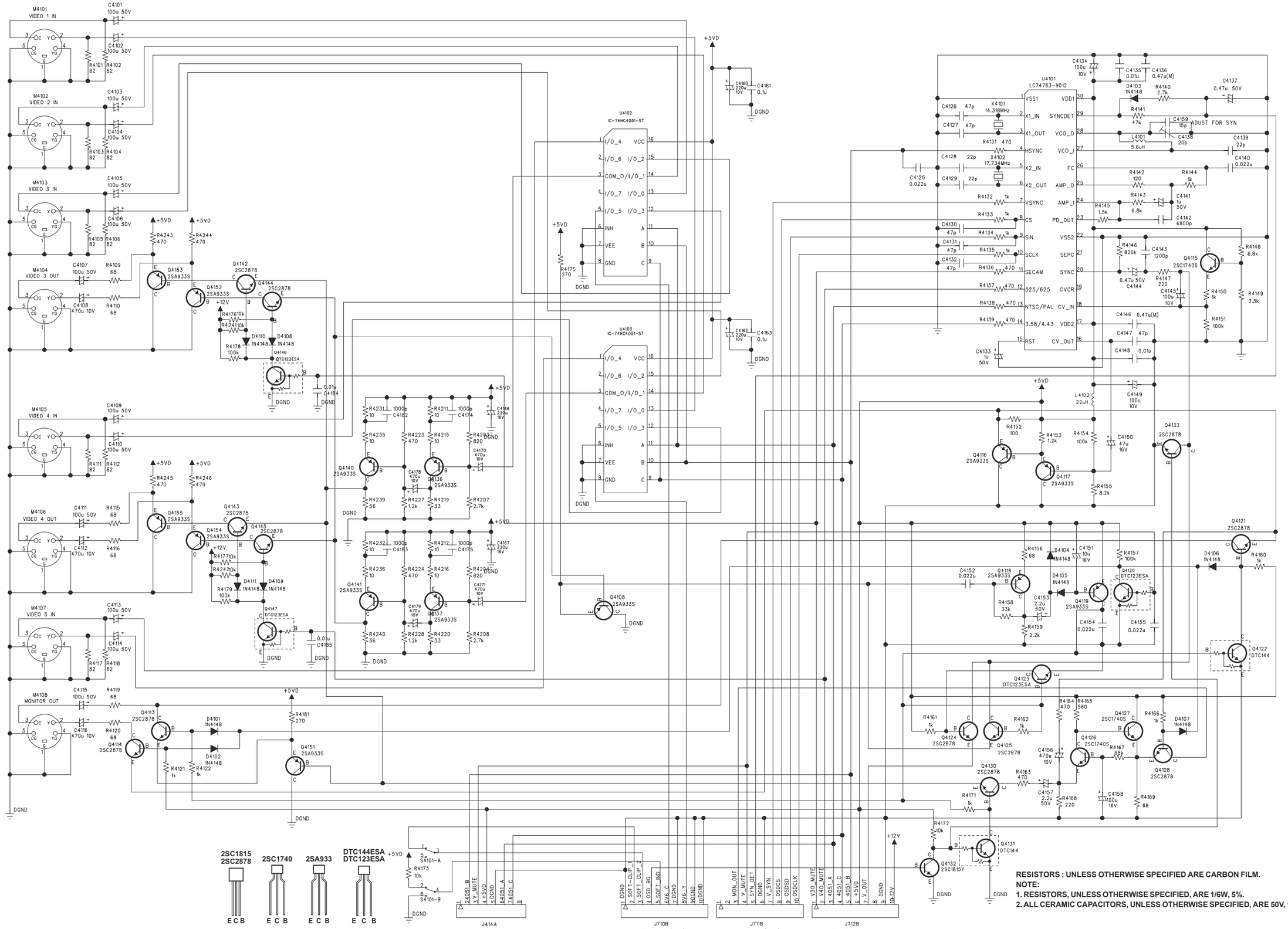
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.

2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

DIGITAL INPUT / OUTPUT

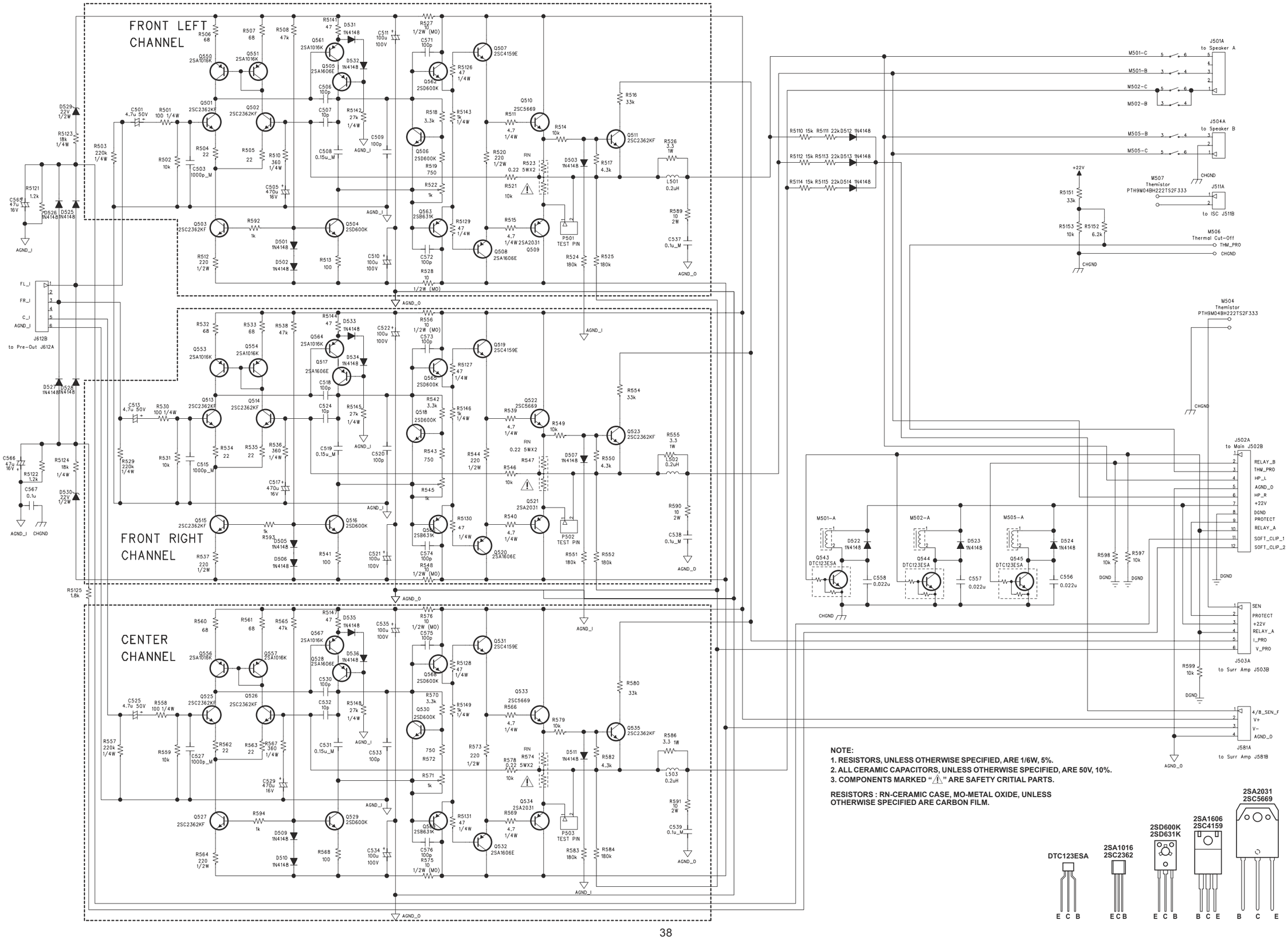


S-VIDEO



RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

FRONT / CENTER CHANNEL POWER AMPLIFIER

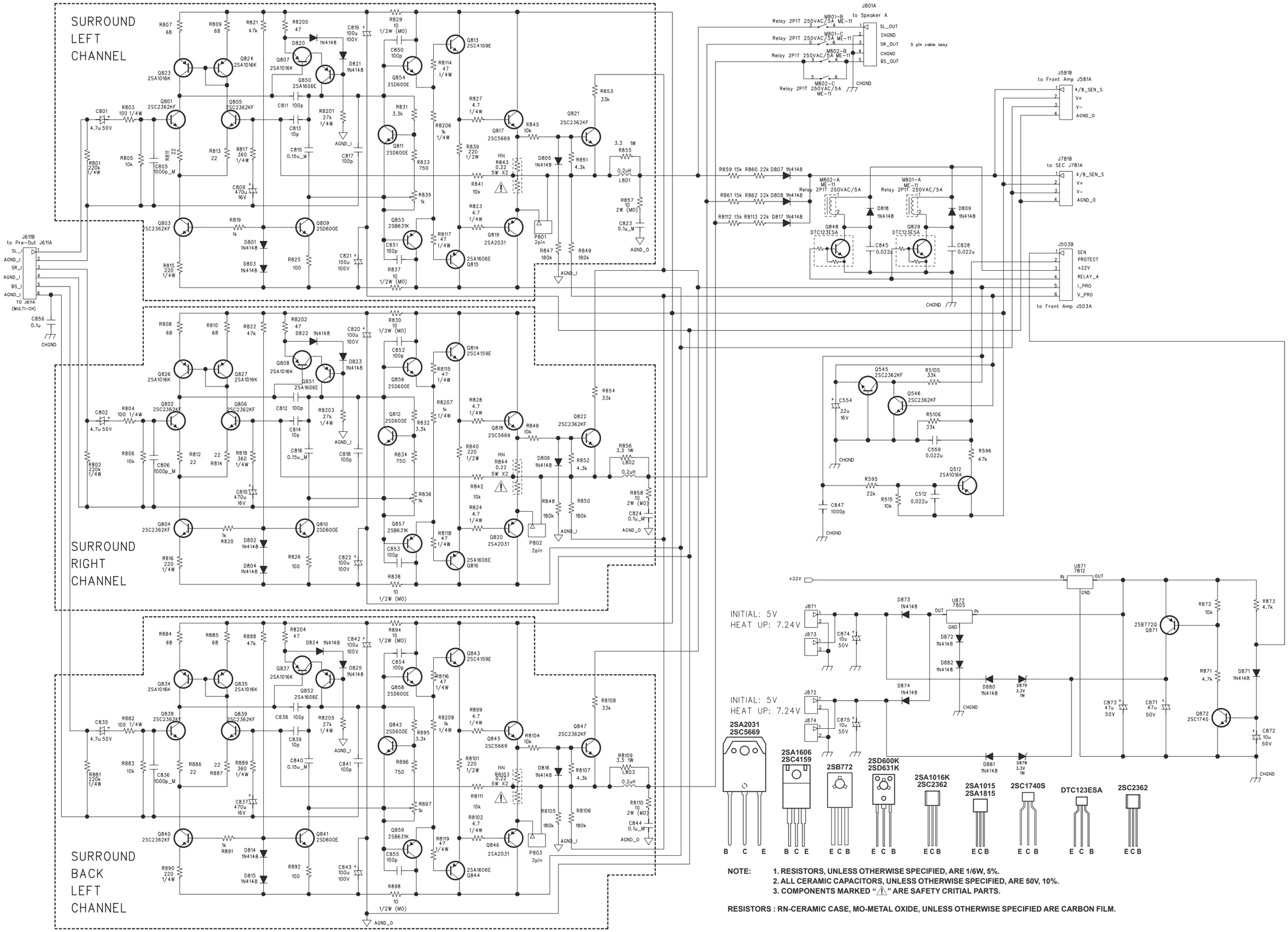


NOTE:

1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
3. COMPONENTS MARKED "⚠" ARE SAFETY CRITIAL PARTS.

RESISTORS : RN-CERAMIC CASE, MO-METAL OXIDE, UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

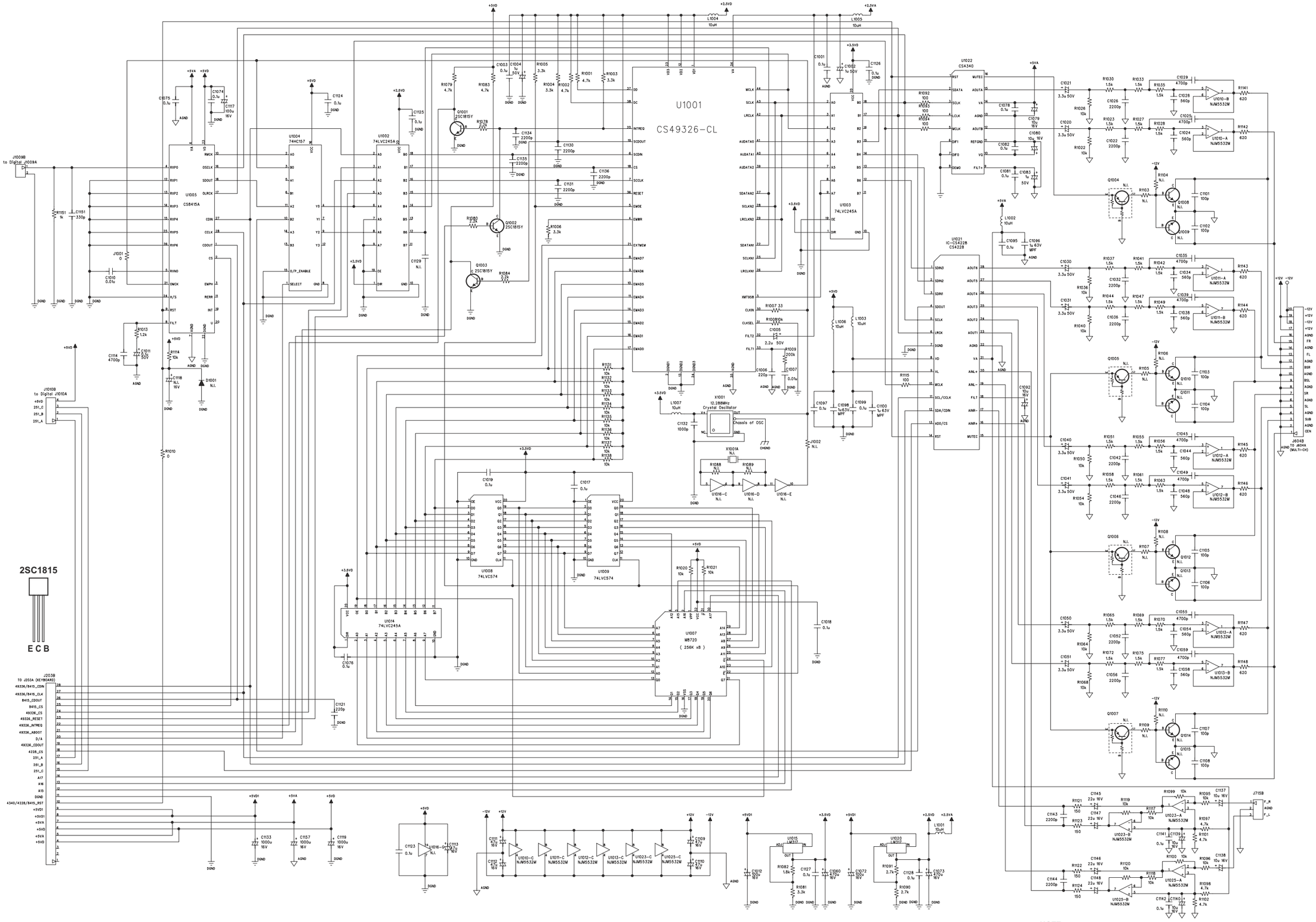
SURROUND CHANNEL POWER AMPLIFIER



NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
3. COMPONENTS MARKED "⚠" ARE SAFETY CRITIAL PARTS.

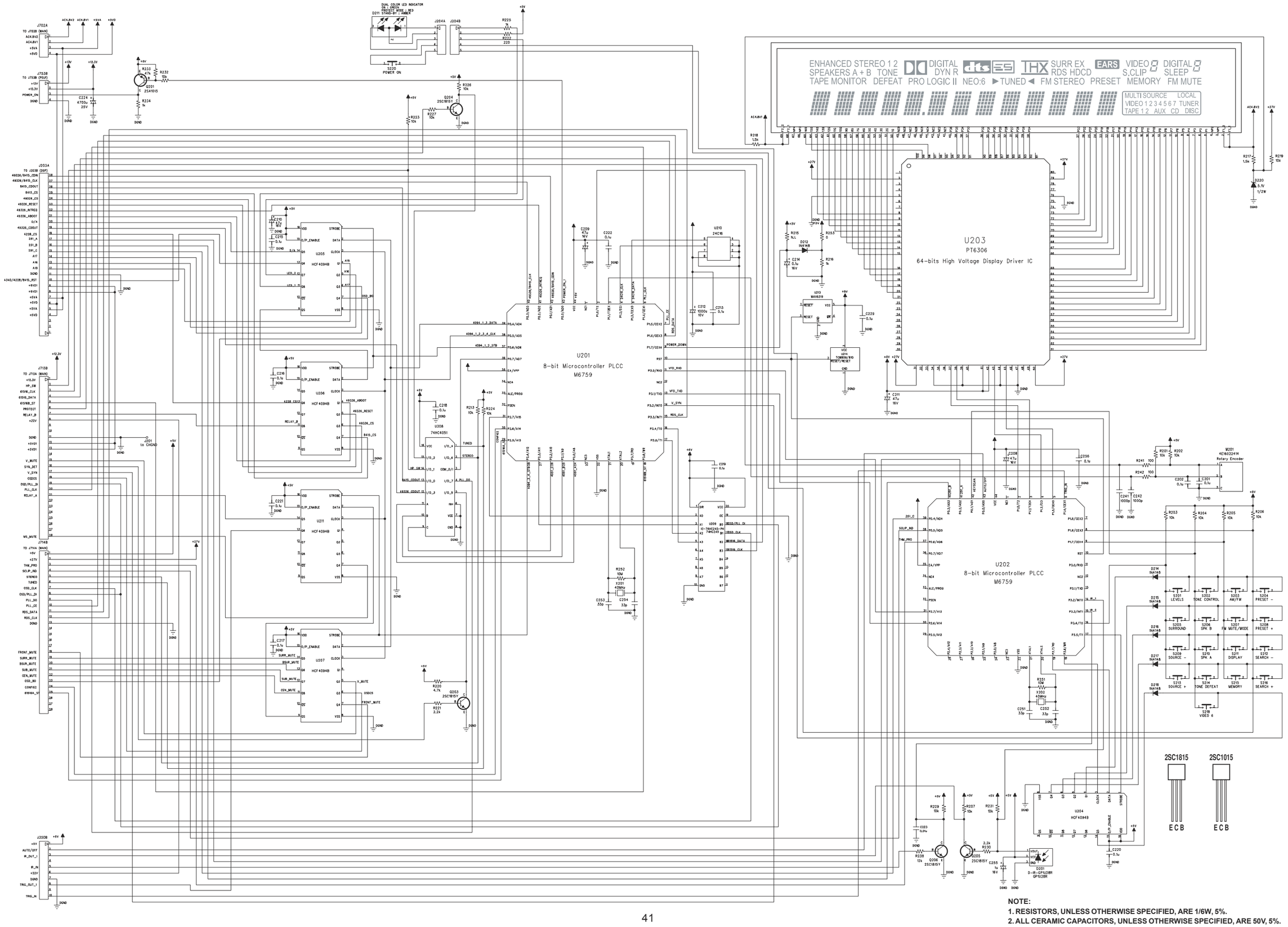
RESISTORS : RN-CERAMIC CASE, MO-METAL OXIDE, UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

DSP



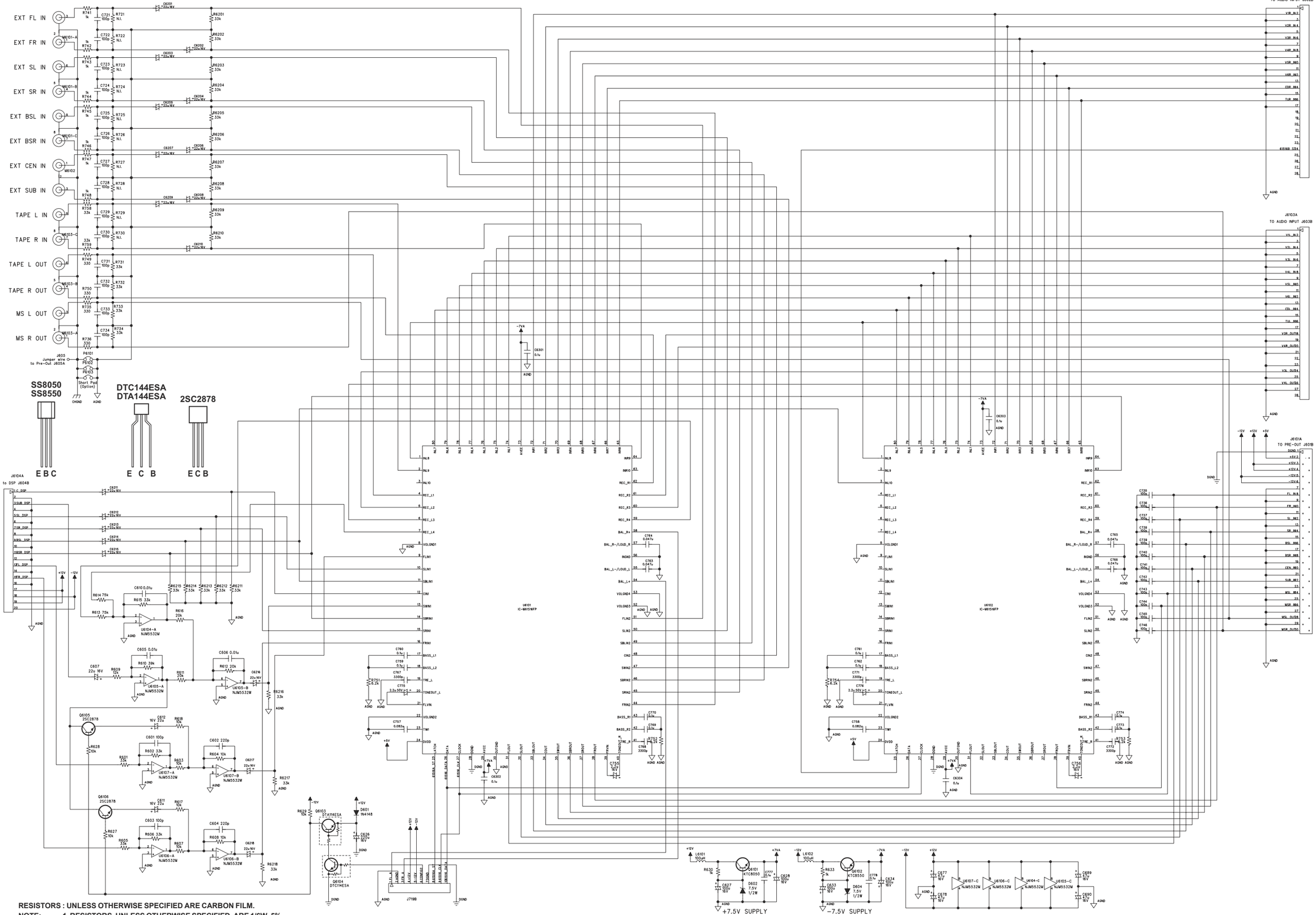
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

KEYBOARD



NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 5%.

MULTI-CHANNEL



RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.

NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.

2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

MAIN BOARD

TO FRONT POWER AMP

J502B

TO AUDIO SWITCH

J704A

TO S-VIDEO

J712A J711A J710A

TO DSP

J715A

J713A
TO J713B (KEYBOARD)

J714A
TO J714B (KEYBOARD)

TO TUNER

J720A

TO MULTI-CH

J719A

TO PRE-OUT

J717A

TO COMPOSITE VIDEO

J708A J707A

TO VIDEO 6

J709A J721A

2SD600K

EBC

J782B
TO J782A (PSU2)

J701
to Heat Sink

J791
to CHGND

J702B
TO J702A(KEYBOARD)

D715
RS402L
70V 4A

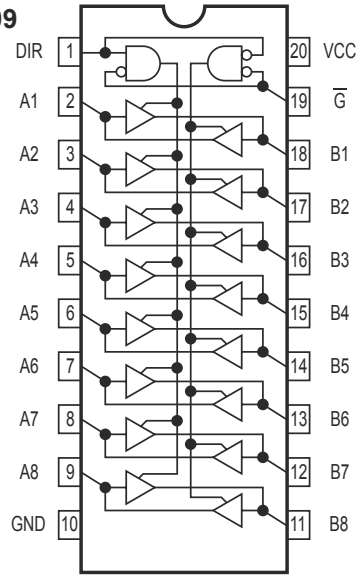
NOTE:
1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

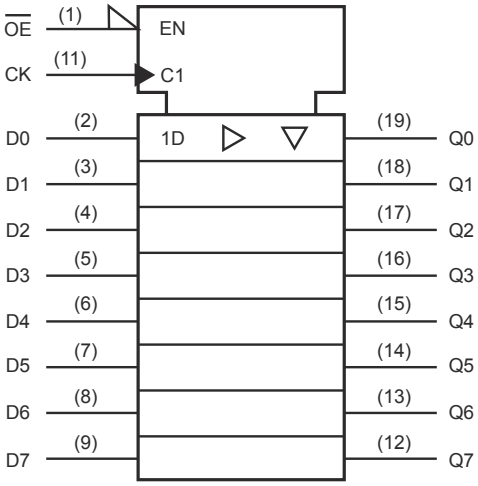
IC BLOCK DIAGRAM

74LVC245
DSP BOARD: U1002, U1003, U1014

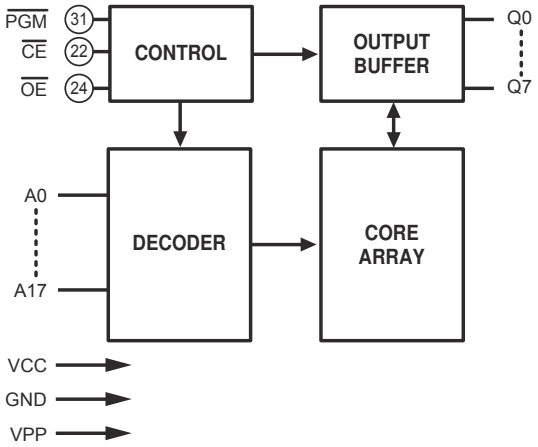
74LVQ574
DSP BOARD: U1008, U1009

74VHC245
KEYBOARD: U209

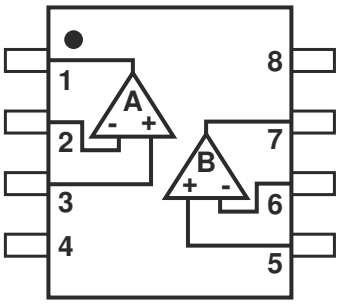




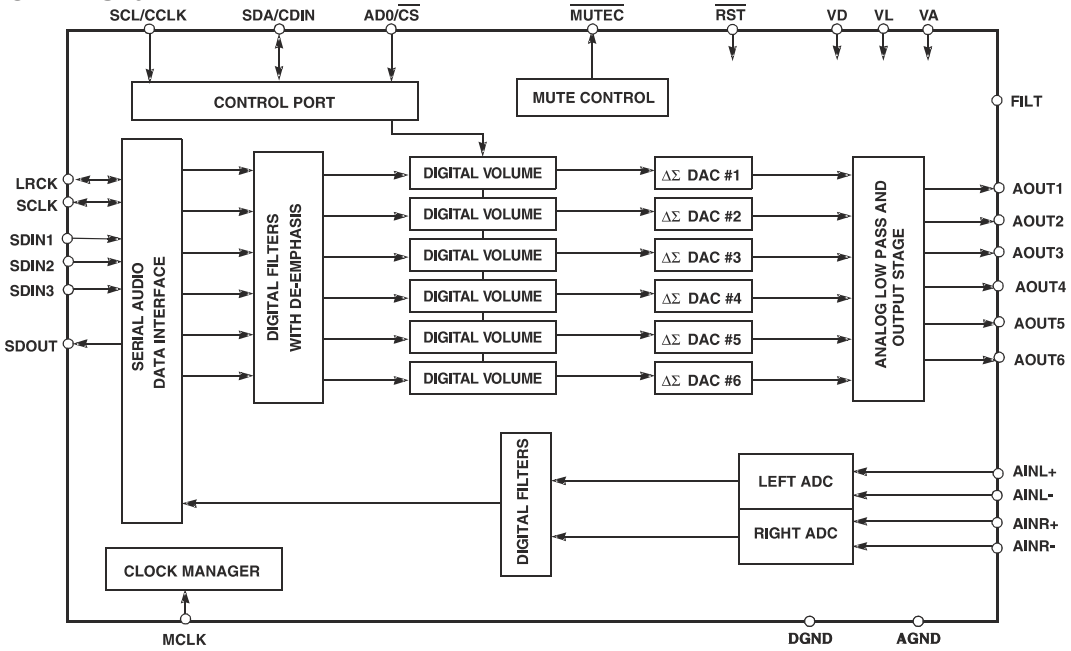
W27C020
DSP BOARD: U1007



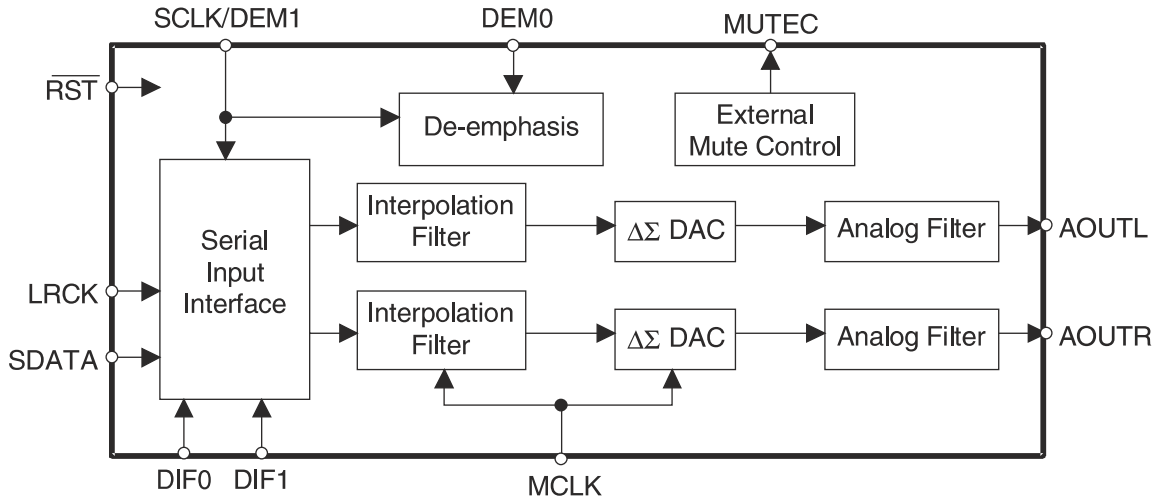
NJM5532
DSP BOARD: U1010~U1013, U1023 & U1025
MULTI-CHANNEL: U6104~U607
PRE-OUT BOARD: U609~U613
AUDIO BOARD: U305
ISC BOARD: U801



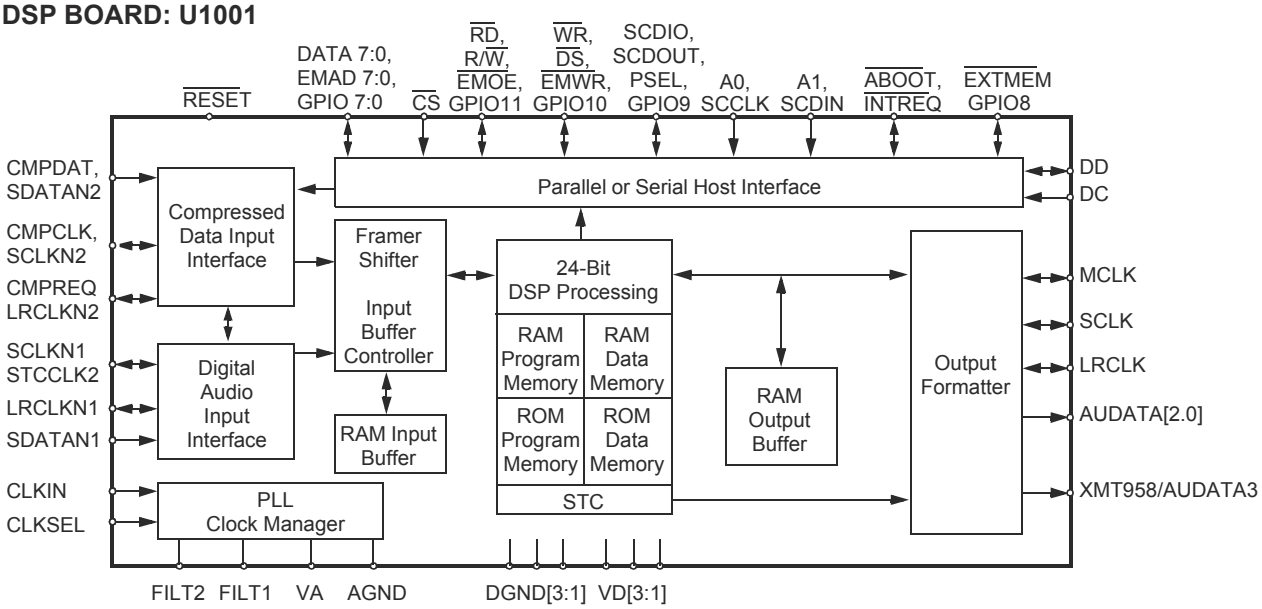
CS4228AKS
DSP BOARD: U1021



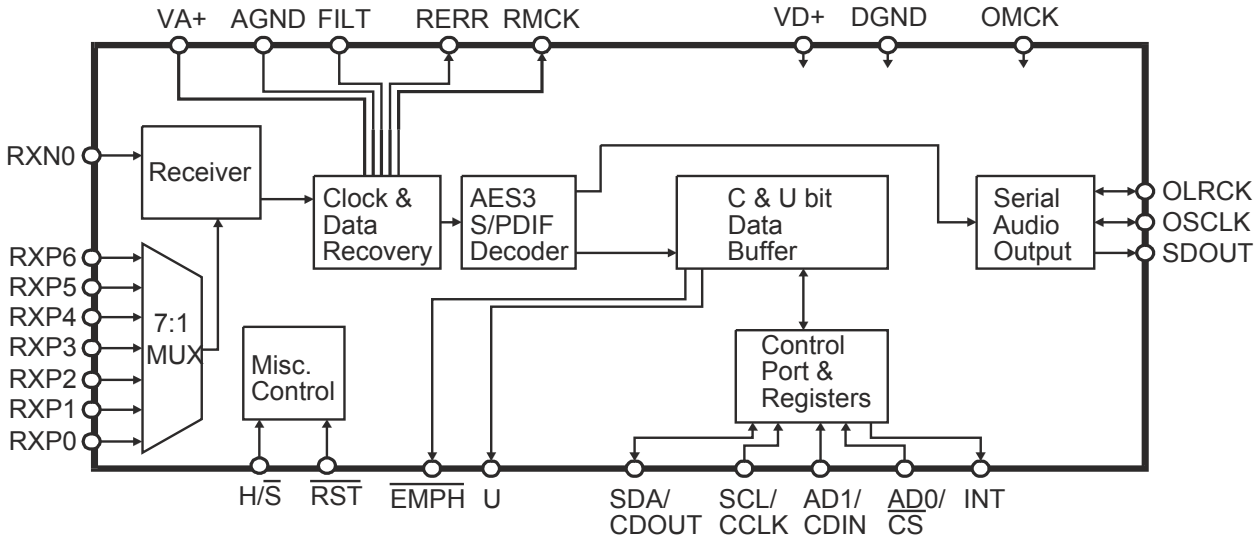
CS4340
DSP BOARD: U1022



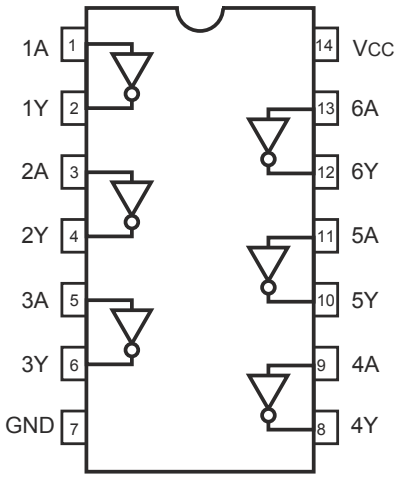
CS49326
DSP BOARD: U1001



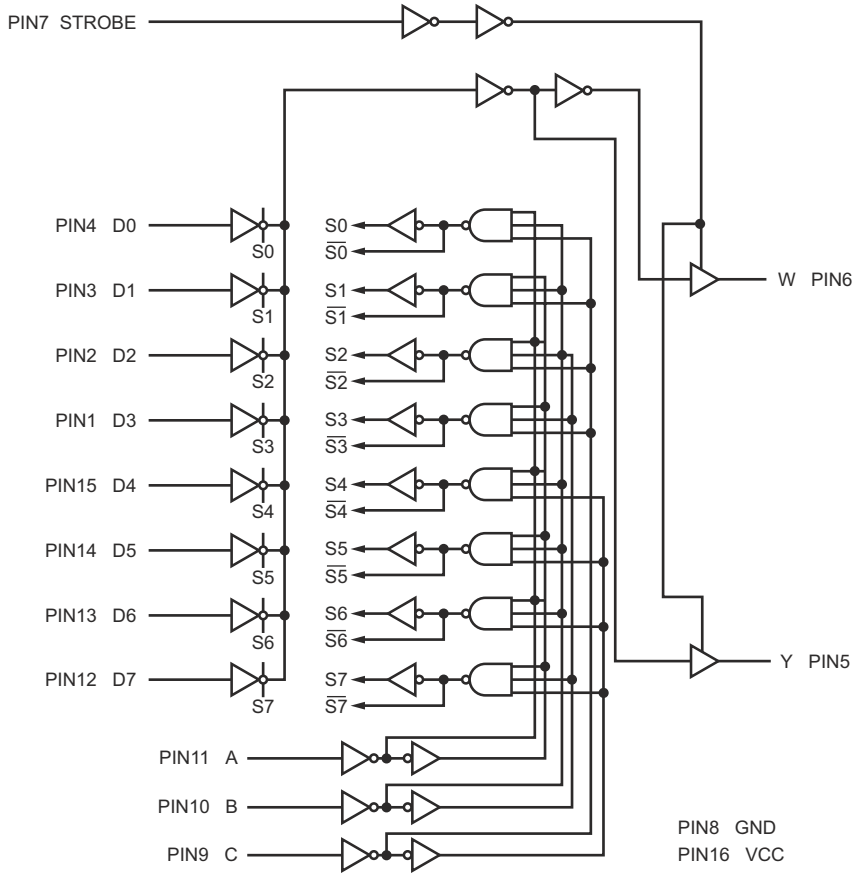
CS8415A
DSP BOARD: U1005



74HCU04
DIGITAL BOARD: U1201 & U1202

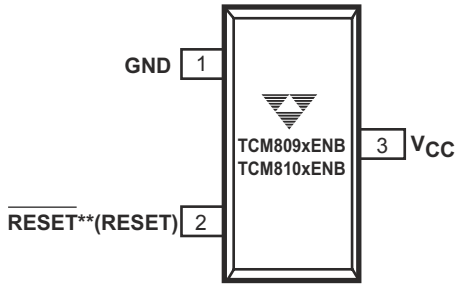


74HC251
DIGITAL BOARD: U1203



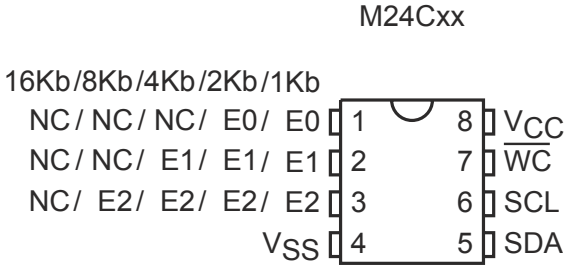
TCM810
KEYBOARD: U214

***3-Pin SOT-23B**



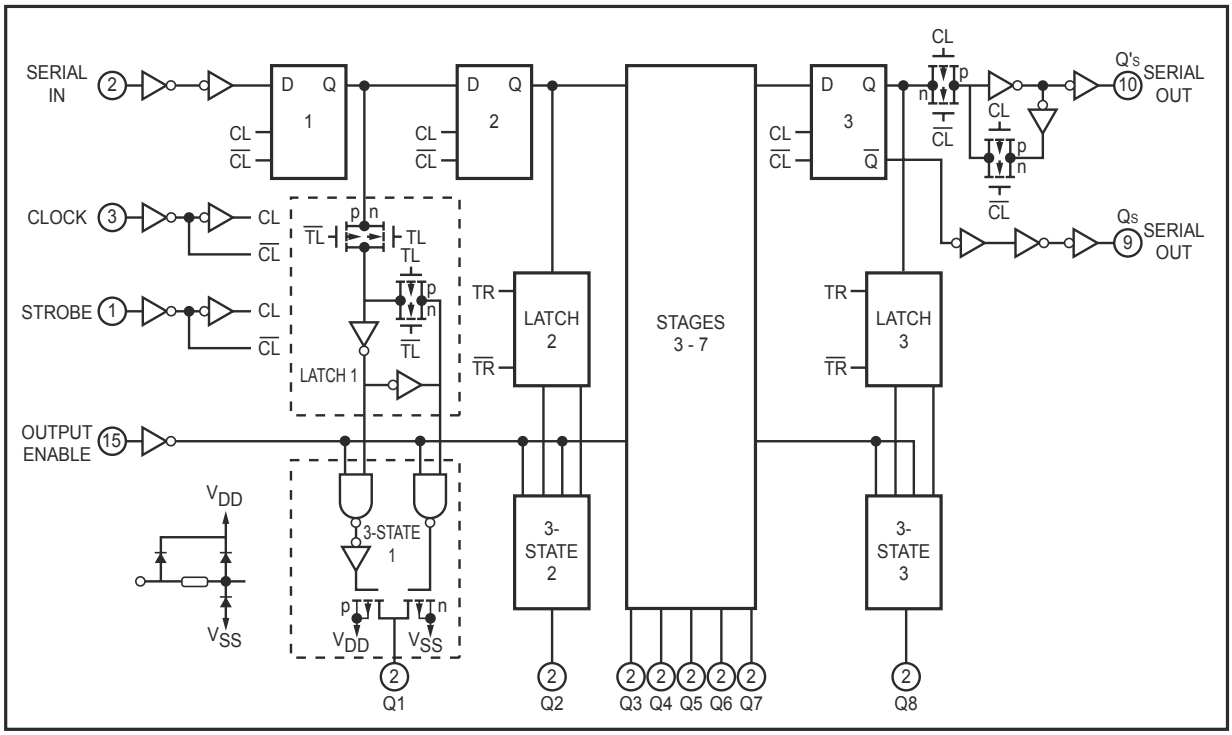
NOTE: *3-Pin SOT-23B is equivalent to JEDEC TO-236
** () is for TCM810

AT24C16
KEYBOARD: U210



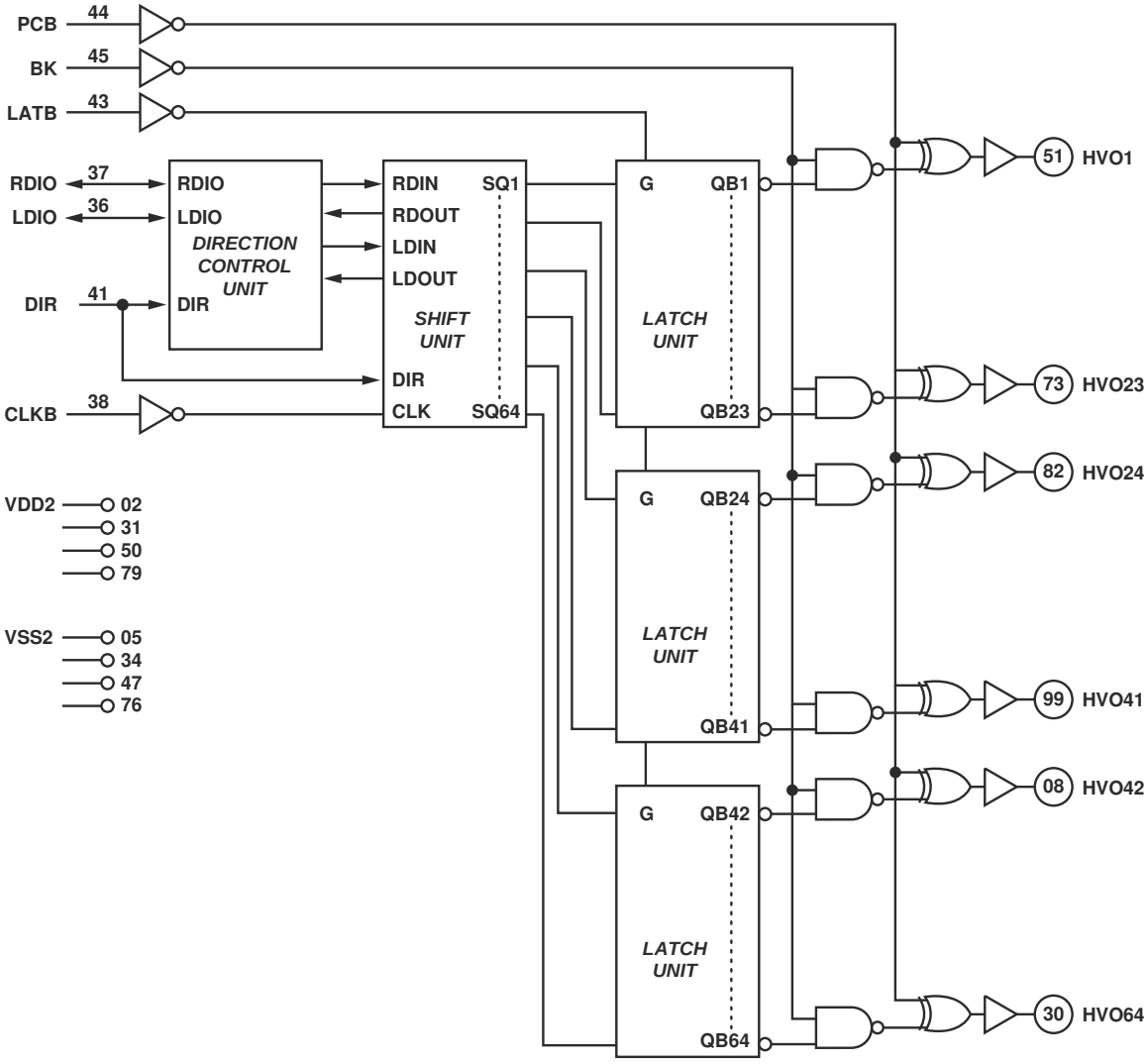
HCF4094B

KEYBOARD: U204~U207 & U211



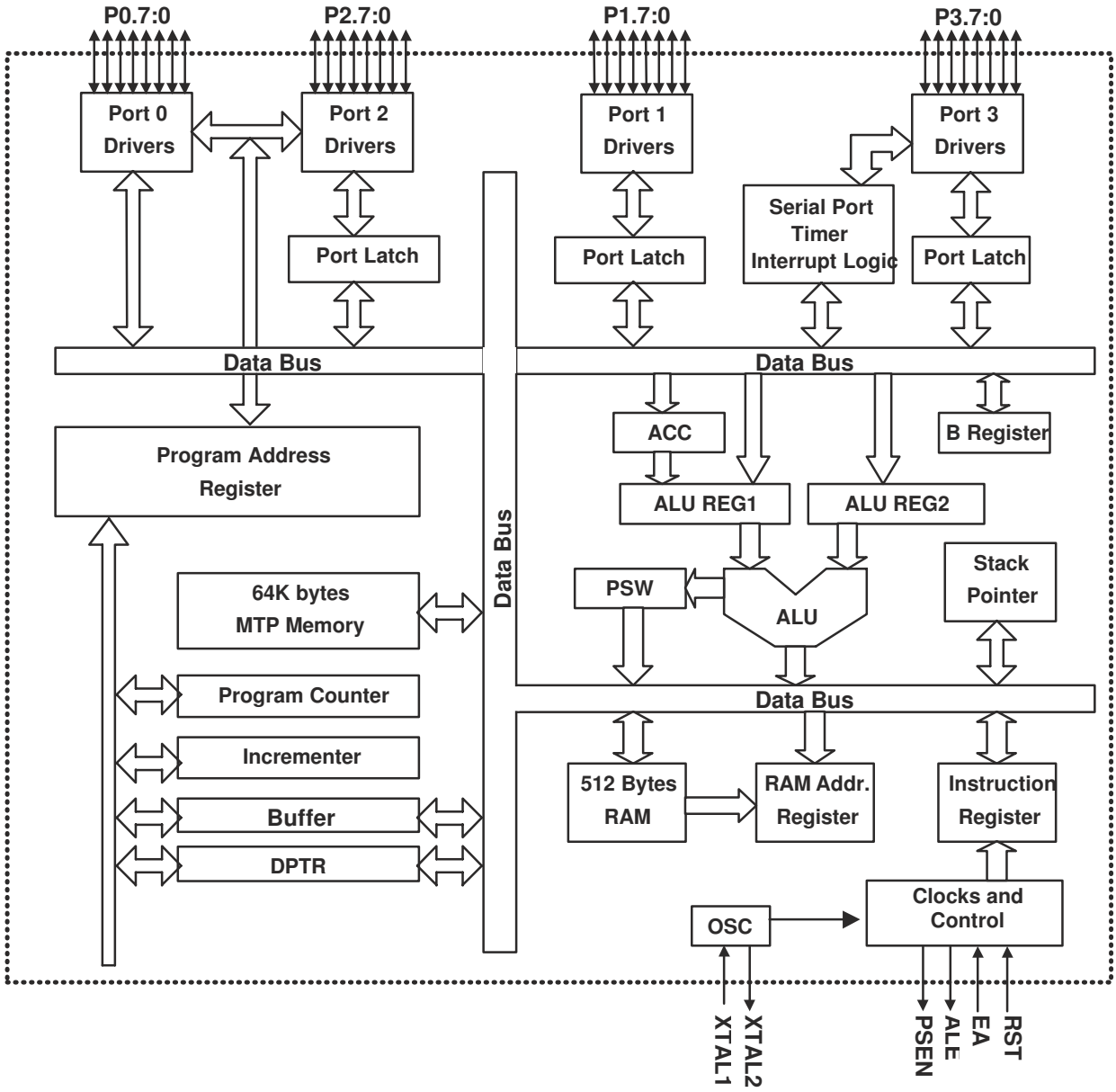
PT6306

KEYBOARD: U203



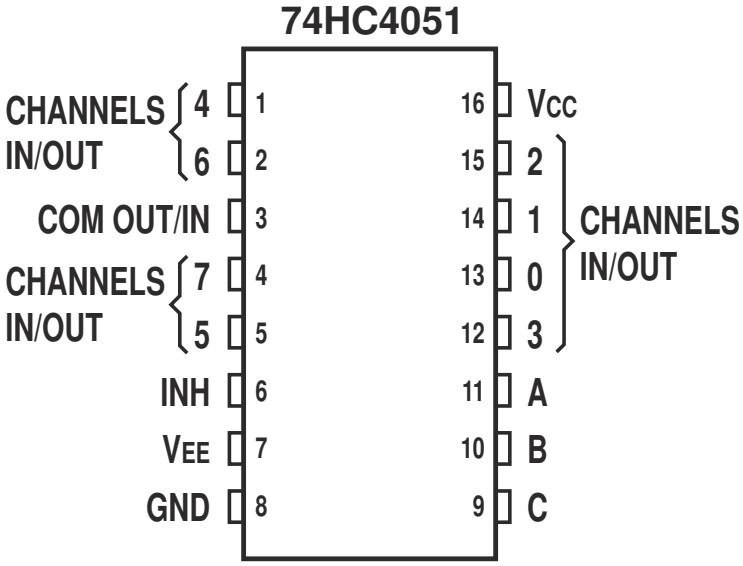
M6759

KEYBOARD: U201 & U202

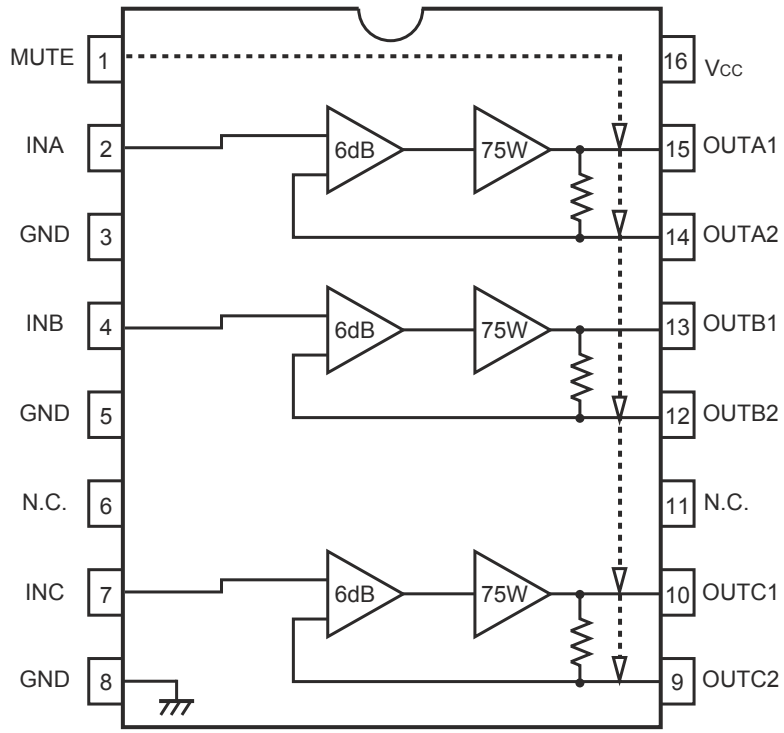


74HC4051

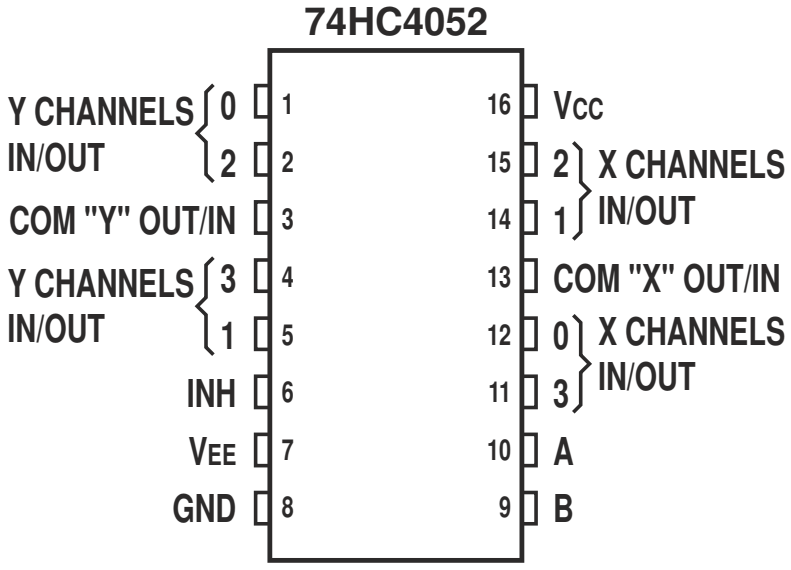
KEYBOARD: U208
S-VIDEO BOARD: U4102 & U4103
COMPOSITE VIDEO BOARD: U4201



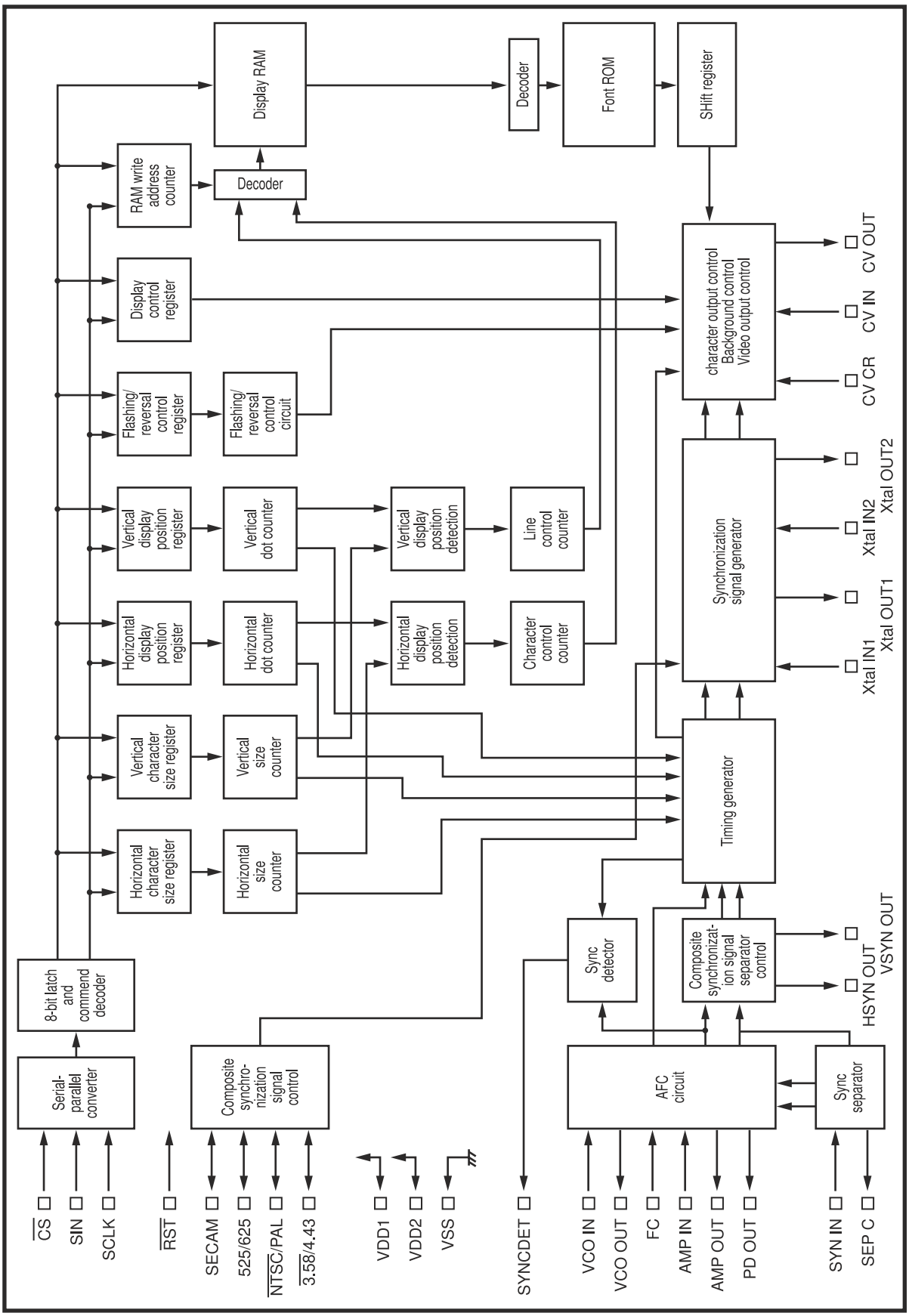
BA7660FS
COMPONENT VIDEO BOARD: U4301



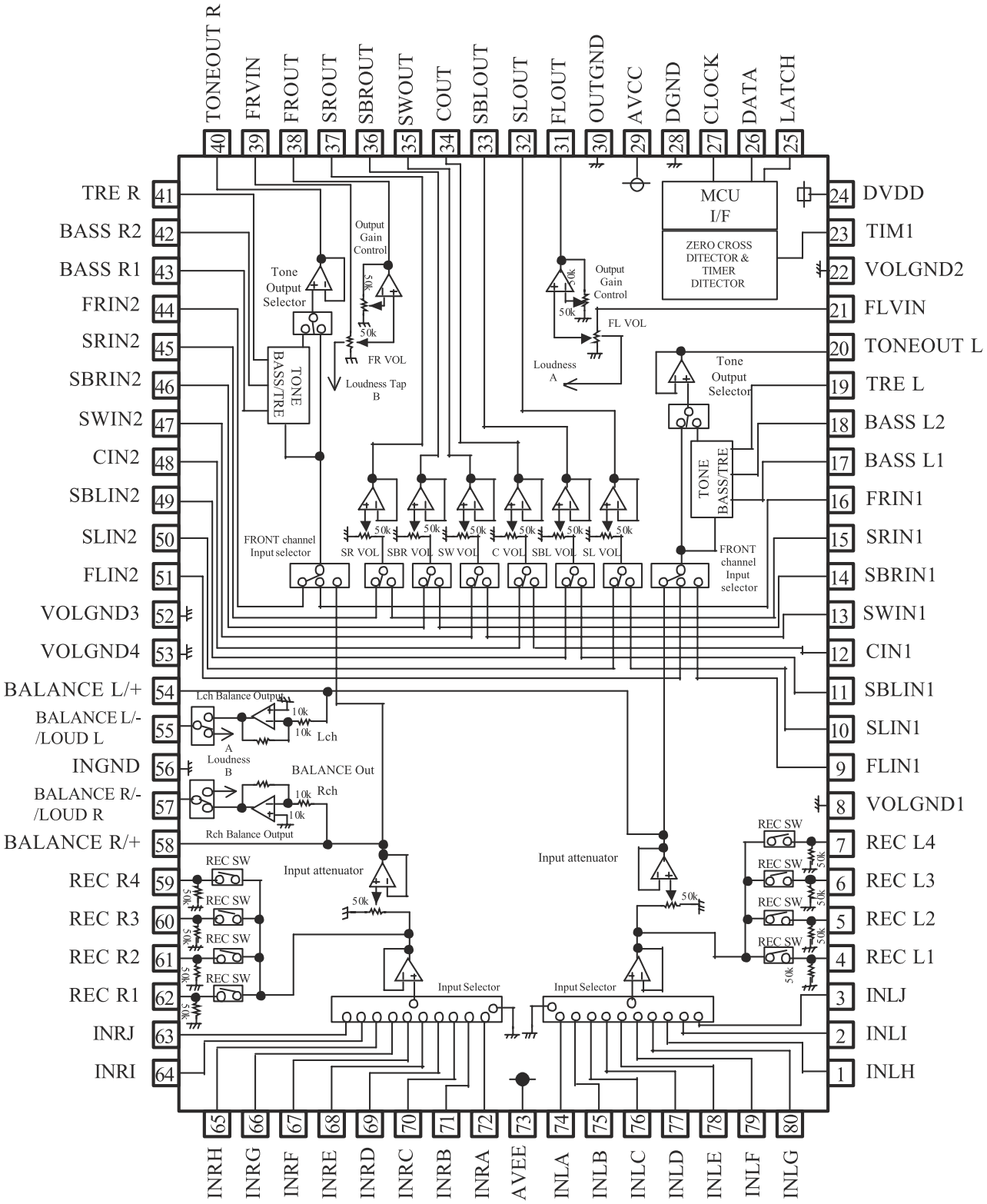
74HC4052
COMPONENT VIDEO BOARD: U4302 & U4303

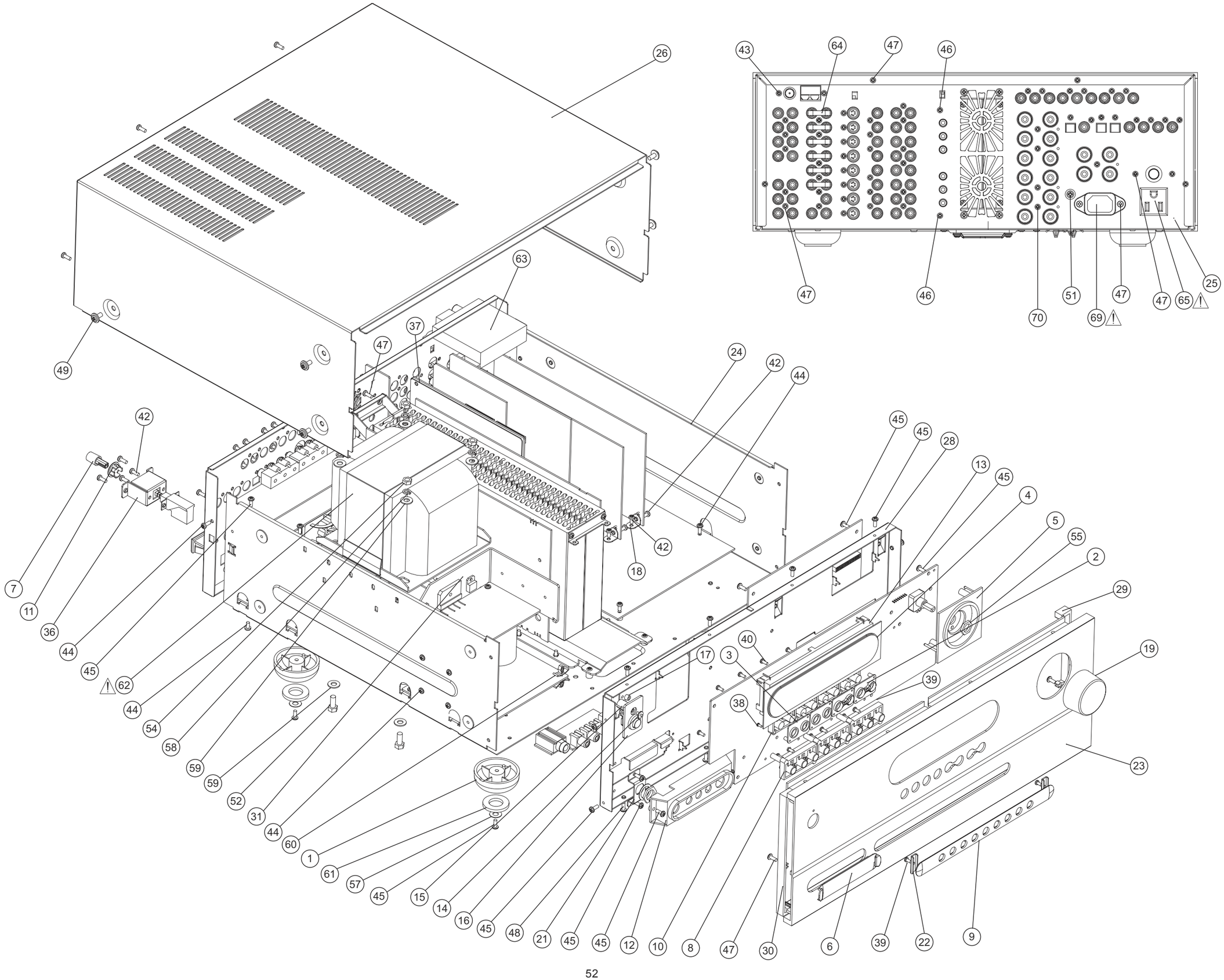


LC74763
S-VIDEO BOARD:
U4101



M61516FP
MULTI-CHANNEL BOARD: U6101 & U6102

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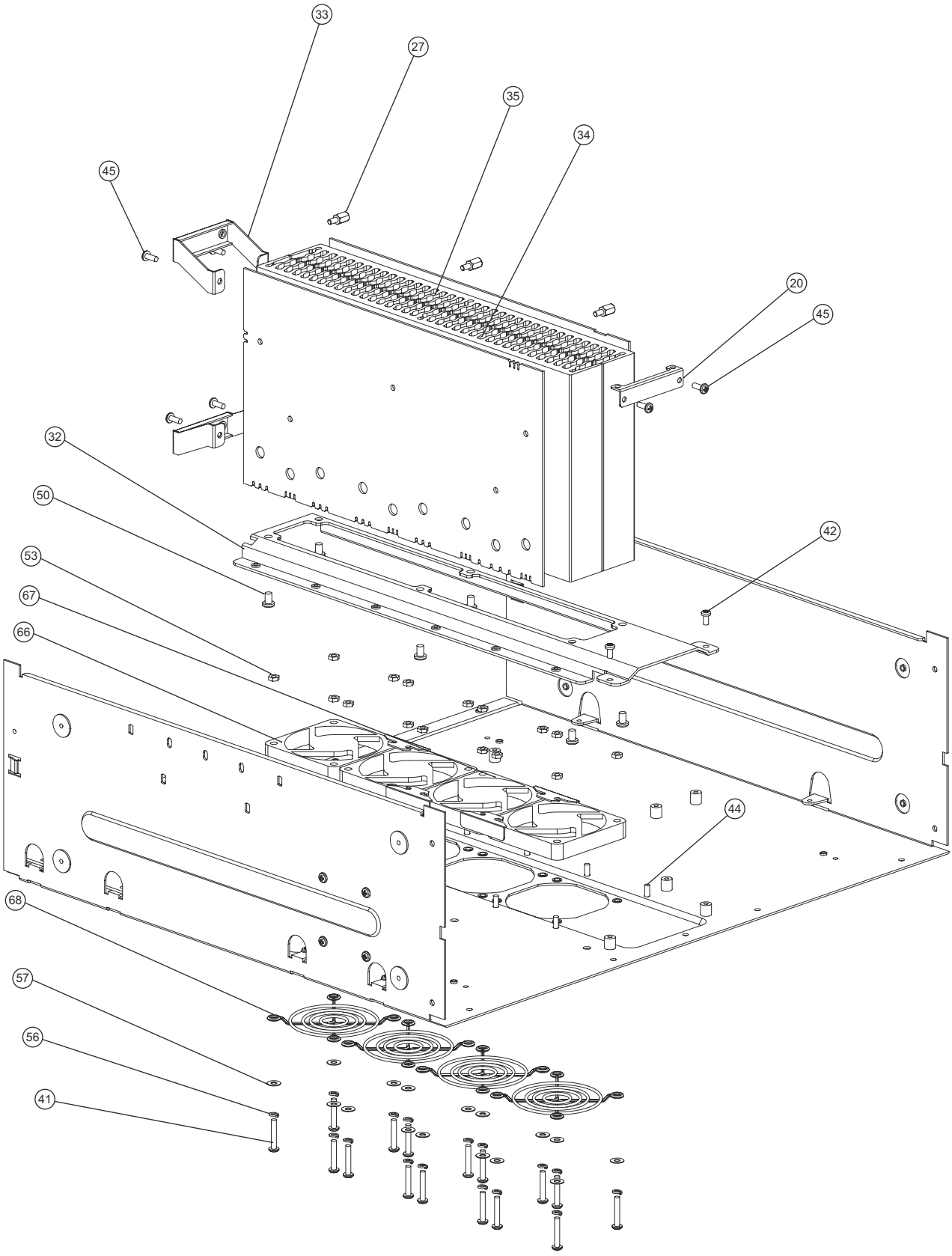
EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Item	Part No.	Description	Qty.
1	10-0163017-01-00	PLASTIC FOOT DOME SHAPE	4
2*AH,*C	10-0163045-72-00	LINKED GOGGLE BEZEL (GREY)	2
2*T	10-0163045-73-00	LINKED GOGGLE BEZEL (TITANIUM)	2
3*AH,*C	10-0163055-72-01	DUO GOGGLE BEZEL (GREY)	2
3*T	10-0163055-73-01	DUO GOGGLE BEZEL (TITANIUM)	2
4	10-0752001-00-10	WINDOW LENS	1
5*AH,*C	10-0752005-72-00	VOLUME BEZEL (GREY)	1
5*T	10-0752005-73-00	VOLUME BEZEL (TITANIUM)	1
6*AH,*C	10-0752007-72-00	VIDEO COVER (GREY)	1
6*T	10-0752007-73-00	VIDEO COVER (TITANIUM)	1
7	10-0752022-02-00	POWER BUTTON BLACK	1
8*AH,*C	10-0752032-72-01	INPUT BUTTON (GREY)	3
8*T	10-0752032-73-01	INPUT BUTTON (TITANIUM)	3
9*AH,*C	10-0752035-71-00	INPUT BUTTON LOZENGE	1
9*T	10-0752035-73-00	INPUT BUTTON LOZENGE (TITANIUM)	1
10*AH,*C	10-0752042-72-01	DUO BUTTON (GREY)	4
10*T	10-0752042-73-01	DUO BUTTON (TITANIUM)	4
11	10-0752045-01-00	POWER BUTTON BEZEL	1
12	10-0752065-01-00	VIDEO HOUSING	1
13	10-0752075-00-00	DISPLAY BRACKET	1
14	10-0772011-00-00	LED LENS ROUND	1
15*AH,*C	10-0772022-72-01	POWER BUTTON TACT ACTIVATE (GREY)	1
15*T	10-0772022-73-01	POWEER BUTTON TACT ACTIVATE (TITANIUM)	1
16*AH,*C	10-0772045-72-01	POWER BUTTON BEZEL (GREY)	1
16*T	10-0772045-73-01	POWER BUTTON BEZEL (TITANIUM)	1
17	11-0163035-80-00	METAL SPACER OD6 X ID3.2 X 4.5mm	2
18	11-0570075-80-01	L BRACKET	2
19*AH,C	11-0752002-72-00	VOLUME KNOB ASSY (GREY)	1
19*T	11-0752002-73-00	VOLUME KNOB ASSY (TITANIUM)	1
20	11-0752045-80-00	HEATSINK MOUNTING BRACKET	1
21	11-0752065-80-00	PHONE BRACKET	1
22	11-0752075-80-00	DUMMY BRACKET	2
23*AH,*C	11-0753000-95-12	FASCIA (GREY)	1
23*T	11-0753000-94-12	FASCIA (TITANIUM)	1
24	11-0753004-80-07	BOTTOM CHASSIS	1
25*AH	11-0753006-94-14	REAR PANEL	1
25*C,*T	11-0753016-94-10	REAR PANEL	1
26*AH	11-0753003-95-16	TOP COVER (GREY)	1
26*C	11-0753013-95-16	TOP COVER (GREY)	1
26*T	11-0753013-97-16	TOP COVER (SILVER)	1
27	11-0762005-80-00	HEX SPACER AF5.5 H8+6	10
28	11-0762025-80-02	SUBFASCIA	1
29*AH,*C	11-0762028-95-00	SIDE CAP L (GREY)	1
29*T	11-0762028-94-00	SIDE CAP L (TITANIUM)	1
30*AH,*C	11-0762038-95-00	SIDE CAP R (GREY)	1
30*T	11-0762038-94-00	SIDE CAP R (TITANIUM)	1
31	11-0762048-80-01	HEATSINK- RECTIFER	1
32	11-0762085-80-01	LARGE FAN MOUNTING BRACKET	1
33	11-0762095-14-00	HTSK SUPPORT BRACKET (BLACK)	2
34	11-0762098-94-02	NEW EXTRUDED HTSK LEFT	1
35	11-0762108-94-00	NEW EXTRUDED HTSK RIGHT	1

Item	Part No.	Description	Qty.
36	11-0772065-80-00	POWER BUTTON BRACKET	1
37	12-0763001-70-00	FIBER PAPER 133 X 150 X 0.8mm	1
38	13-0200502-22-00	SELF TAP SCREW 2X5 TYPE-B NI PLT	8
39	13-0260600-02-00	SELF TAP SCREW 2.6 X 6 P/H TYPE-A NI PLT	6
40	13-0260803-02-00	SELF TAP SCREW 2.6 X 8 B/H TYPE-A NI PLT	16
41	14-0300180-02-00	MACHINE SCREW M3 X 18 P/H NI PLT	16
42	14-0300600-02-00	MACHINE SCREW M3 X 6 P/H NI PLT	17
43	14-0300600-04-00	MACHINE SCREW M3 X 6 P/H BLK	2
44	14-0300600-52-00	SELF TAP SCREW 3 X 6 P/H NI-PLT TYPE-B	20
45	14-0300800-53-00	SELF TAP SCREW 3 X 8 B/B ZINC PLATED	34
46	14-0300803-04-00	MACHINE SCREW M3 X 8 B/H BLACK	2
47	14-0300803-54-00	TAPTITE SCREW 3 X 8 B/H TYPE-B BLK PLT	60
48	14-0350803-52-00	TAPTITE SCREW 3.5 X 8.0 B/H TYPE-B NI PLT	5
49	14-0400802-04-00	MACHINE SCREW M4 X 8 WASHER HEAD BLK	6
50	14-0400808-54-00	TAPTITE SCREW 4 X 8 C/H TYPE -B BLK	6
51	14-0401402-04-00	MACHINE SCREW M4 X 14 WAHER HEAD BLK	1
52	14-0501205-02-02	HEX HEAD SCREW M5 X 12 NI PLT	4
53	15-0300240-05-20	NUT M3 X 2.4mm	16
54	15-0500340-08-20	NUT M5X3.4 NI PLT	4
55	15-0900220-11-30	NUT ZINC PLATED M9.0 X 2.2mm 11p	1
56	16-0320560-09-20	SPRING WASHER I/D 3.2 X O/D 5.6 0.9mm THK	35
57	16-0350080-04-35	STEEL WASHER I/D 3.5 X O/D 8.0 0.4mm ZINC PLT	22
58	16-0520080-12-30	SPRING WASHER I/D 5.2 X O/D 8 X 1.2 ZINC PLT	4
59	16-0561200-10-20	STEEL WASHER I/D 5.6 X O/D 12 X 1 NI PLT	8
60	17-0500960-00-01	PCB SUPPORTER H=9.6mm PCB HOLE 4mm	3
61	17-1402603-30-22	RUBBER FOOT I/D14 X O/D26 X 3	4
62 ⚠	25-0220057-30-18	XFORMER PW EI-114 115V/230V T06675A	1
63*AH	29-4000004-00-38	AM/FM TUNER MODULE KST-MB114MA0-23	1
63*C,*T	29-4000002-00-38	AM/FM TUNER MODULE KST-MB114MA1-23	1
64	34-0061030-00-67	JUMPER PLUG PITCH 14mm	6
65*AH ⚠	34-0101003-00-63	AC OUTLET 3 PINS US POLARIZED SS-6B-1-NY	1
65*C,*T ⚠	34-0100002-00-78	AC OUTLET EURO CEE 7 2.5A/250V A302D0060P	1
66	37-2011230-00-63	FAN DC 12V 0.09A 3000RPM W/450mm CONNECTOR	2
67	37-2011230-01-63	FAN DC 12V 0.09A 3000RPM W/350mm CONNECTOR	2
68	39-0000008-00-63	FAN GUARD 60mm DFG-60	4
69 ⚠	34-0101000-00-67	AC SOCKET IEC 15A/250V	1
70	14-0301000-54-00	TAPTITE SCREW 3 X 10 P/H TYPE-B BLK	7

NOTE:

THE COMPONENTS IDENTIFIED BY ⚠ MARK ARE CRITICAL FOR RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

<*AH > : USA, CANADIAN MODEL ONLY.

<*C > : EUROPEAN MODEL ONLY.

<*T > : EUROPEAN MODEL WITH TATANIUM COLOUR ONLY, ALL ELECTRICAL ARE SAME AS *C VERSION.

ELECTRICAL PARTS LIST (refer to schematic diagram for non critical component values)

Reference No.	Part No.	Description
POWER AMP MODULE	95-0907535-12-01	POWER AMPLIFIER MODULE
FRONT & CENTER AMP BOARD		
PCB ASSEMBLY	80-0907530-40-00	FRONT AND CENTER AMP ASSEMBLY
CAPACITORS		
C501,C513,C525	22-3476052-00-43	CAP ELEC SS 4.7uF 50V 20%
C503,C515,C527	22-4110203-10-28	CAP MYLAR MCC-R 1000P 100V 10%
C505,C517,C529	22-3471022-00-28	CAP ELEC GR 470uF 16V 20%
C508,C519,C531	22-4115403-10-10	CAP MYLAR KT-G 150nF 100V 10%
C510,C511,C521,C522,C534,C535	22-3101082-00-28	CAP ELEC GR 100uF 100V 20%
C537-C539	22-4210402-00-31	CAP MPF 0.1uF 63V 5%
C565,C566	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
DIODES		
D501-D503,D505-D507,D509-D514, D522-D528,D531-D536	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D529,D530	20-3222002-02-01	DIODE ZENER BZX55 22V 1/2W 5%
COILS		
L501-L503	24-1000001-00-28	AIR COIL 0.2uH 10%
RELAY		
M501,M502,M505	32-3124051-03-40	RELAY POWER DC24V 5A/250V 2P1T
THERMISTORS		
M504,M507	23-6110100-00-08	PTC 100 OHM PTH9MO4BH471TS2F333
THERMAL PROTECTOR		
M506 ⚠	39-0000007-00-15	THERMAL CUT OFF SWITCH 90C UP72
TRANSISTORS		
Q501-Q503,Q511,Q513-Q515,Q523, Q525-Q527,Q535	21-0000410-00-12	XTR SS NPN HFE160-320 130MHz 2SC2362KF
Q504,Q506,Q516,Q518,Q529,Q530, Q562,Q565,Q568	21-1011210-50-12	XTR PW PNP 1A/100V TO-126 2SD600KE
Q505,Q508,Q517,Q520,Q528,Q532	21-1011611-30-12	XTR PW PNP 1.5A/160V TO-220ML 2SA1606E
Q507,Q519,Q531	21-1011610-30-12	XTR PW NPN 1.5A/160V TO-220ML 2SC4159E
Q509,Q521,Q534	21-1152311-10-12	XTR PW PNP 15A/230V TO-3PB 2SA2031
Q510,Q522,Q533	21-1152310-10-12	XTR PW NPN 15A/230V TO-3PB 2SC5669
Q543-Q545	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q550,Q551,Q553,Q554,Q556,Q557, Q561,Q564,Q567	21-0100410-00-12	XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
Q563,Q566,Q569	21-1011211-50-12	XTR PW PNP 1A/100V TO-126 2SB631KE
RESISTORS		
R522,R545,R571	30-0102106-01-64	VR SEMI-FIX RES CF 1K OHM B 30%
R523,R547,R574	23-4228280-08-20	RES RN 0.22 OHM 5% 5W SIL 3 PIN

Reference No.	Part No.	Description
R527,R528,R548,R556,R575,R576	23-2100230-00-00	RES MO 10 OHM 5% 1/2W
R589-R591	23-2100250-00-01	RES MO 10 OHM 5% 2W
SURROUND LEFT/RIGHT/BACK AMP BOARD		
PCB ASSEMBLY	80-0907530-18-00	SURROUND LEFT/RIGHT/BACK AMP ASSEMBLY
CAPACITORS		
C554	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
C801,C802,C835	22-3476052-00-43	CAP ELEC SS 4.7uF 50V 20%
C805,C806,C836	22-4110203-10-28	CAP MYLAR MCC-R 1000P 100V 10%
C809,C810,C837,C874,C875	22-3471022-00-28	CAP ELEC GR 470uF 16V 20%
C815,C816,C840	22-4115403-10-10	CAP MYLAR KT-G 150nF 100V 10%
C819-C822,C842,C843	22-3101082-00-28	CAP ELEC GR 100uF 100V 20%
C823,C824,C844	22-4210402-00-31	CAP MPF 0.1uF 63V 5%
C871,C873	22-3470052-00-43	CAP ELEC SS 47uF 50V 20%
C872	22-3100052-00-43	CAP ELEC SS 10uF 50V 20%
DIODES		
D801-D809,D814-D818,D820-D825, D871-D874,D880-D883	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D879,D878	20-3133912-20-36	DIODE ZENER BZX85 3.3V 1W 5%
COILS		
L801,L802,L803	24-1000001-00-28	AIR COIL 0.2uH 10%
RELAYS		
M801,M802	32-3124081-02-40	RELAY POWER DC24V 8A/250V 2P1T
TRANSISTORS		
Q512,Q807,Q808,Q823,Q824,Q826, Q827,Q834,Q835,Q837	21-0100410-00-12	XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
Q545,Q546,Q801-Q806,Q821,Q822, Q838-Q840,Q847	21-0000410-00-12	XTR SS NPN HFE160-320 130MHz 2SC2362KF
Q809-Q812,Q841,Q842,Q854,Q856,Q858	21-1011210-50-12	XTR PW PNP 1A/100V TO-126 2SD600KE
Q813,Q814,Q843	21-1011610-30-12	XTR PW NPN 1.5A/160V TO-220ML 2SC4159E
Q815,Q816,Q844,Q850-Q852	21-1011611-30-12	XTR PW PNP 1.5A/160V TO-220ML 2SA1606E
Q817,Q818,Q845	21-1152310-10-12	XTR PW NPN 15A/230V TO-3PB 2SC5669
Q819,Q820,Q846	21-1152311-10-12	XTR PW PNP 15A/230V TO-3PB 2SA2031
Q829,Q848	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q855,Q857,Q859	21-1011211-50-12	XTR PW PNP 1A/100V TO-126 2SB631KE
Q871	21-1036003-50-06	XTR PW 3A/60V TO-126 2SB772Q
Q872	21-0000390-70-14	XTR SS NPN HFE270-560 180MHz 2SC1740S
RESISTORS		
R8103,R843,R844	23-4228280-08-20	RES RN 0.22 OHM 5% 5W SIL 3 PIN

Reference No.	Part No.	Description
R8110,R857,R858	23-2100250-00-01	RES MO 10 OHM 5% 2W
R829,R830,R837,R838,R894,R898	23-2100230-00-00	RES MO 10 OHM 5% 1/2W
R835,R836,R897	30-0102106-01-64	VR SEMI-FIX RES CF 1K OHM B 30% 6mm
ICs		
U871	27-3001201-17-14	I.C. VOLT REG 12V 1A NJM7812
U872	27-3000501-17-14	I.C. VOLT REG 5V 1A NJM7805FA
DSP BOARD		
PCB ASSEMBLY	80-0907530-65-00	DSP ASSEMBLY
CAPACITORS		
C1137-C1140,C1079,C1080,C1092	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
C1012,C1072,C1117	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C1119,C1133,C1157	22-3102022-00-28	CAP ELEC GR 1000uF 16V 20%
C1002,C1004,C1083,C1096,C1098,C1100	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C1011	22-3107052-00-43	CAP ELEC. SS 0.1uF 50V 20%
C1145-C1148	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
C1005	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C1020,C1021,C1030,C1031,C1040, C1041,C1050,C1051	22-3336052-00-43	CAP ELEC SS 3.3uF 50V 20%
C1109-C1113	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C1060,C1073	22-3471022-00-28	CAP ELEC GR 470uF 16V 20%
C1101-C1108	45-0101055-55-57	CAP CER SMD 100pF 50V 10%
C1132	45-0102055-55-57	CAP CER SMD 1nF 50V 10%
C1007,C1010	45-0103055-55-57	CAP CER SMD 10nF 50V 10%
C1003,C1001,C1017-C1019,C1074-C1076,C1078,C1081,C1095,C1097, C1099,C1123-C1128,C1115,C1141,C1142	45-0104056-57-57	CAP CER SMD 0.1uF 50V 20%
C1121	45-0221055-55-57	CAP CER SMD 220pF 50V 10%
C1006,C1022,C1026,C1032,C1036, C1042,C1046,C1052,C1056,C1130, C1131,C1134-C1136,C1143,C1144	45-0222055-55-57	CAP CER SMD 2.2nF 50V 10%
C1151	45-0331055-55-57	CAP CER SMD 330pF 50V 10%
C1025,C1029,C1035,C1039,C1045, C1049,C1055,C1059,C1114	45-0472055-55-57	CAP CER SMD 4.7nF 50V 10%
C1024,C1028,C1034,C1038,C1044, C1048,C1054,C1058,	45-0561055-55-57	CAP CER SMD 560pF 50v 10%
INDUCTORS		
L1001-L1007	24-0100127-00-28	IND CHOKE 10uH 10%
TRANSISTORS		
Q1001-Q1003	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
RESISTORS		
R1001,R1002,R1079,R1083,1097, R1098,R1101	44-0470120-51-00	RES SMD 4.7K OHM 5% 1/16W 0603
R1003-R1006,R1081	44-0330120-51-00	RES SMD 3.3K OHM 5% 1/16W 0603
R1007	44-0330920-51-00	RES SMD 33 OHM 5% 1/16W 0603

Reference No.	Part No.	Description
R1008,R1020-R1022,R1026,R1036, R1040,R1050,R1054,R1064,R1068, R1095,R1096,R1099,R1100,R1114, R1117-R1120,R1131-R1138,R1230	44-0100220-51-00	RES SMD 10K OHM 5% 1/16W 0603
R1009	44-0200320-51-00	RES SMD 200K OHM 5% 1/16W 0603
R1010,J1001	44-0000020-51-00	RES SMD 0 OHM 5% 1/16W 0603
R1013	44-0120120-51-00	RES SMD 1.2K OHM 5% 1/16W 0603
R1023,R1027,R1028,R1030,R1033, R1035,R1037,R1041,R1042,R1044, R1047,R1049,R1051,R1055,R1056, R1058,R1061,R1063,R1065,R1069, R1070,R1072,R1075,R1077	44-0150120-51-00	RES SMD 1.5K OHM 5% 1/16W 0603
R1078,R1080,R1084	44-0220120-51-00	RES SMD 2.2K OHM 5% 1/16W 0603
R1082	44-0180120-51-00	RES SMD 1.8K OHM 5% 1/16W 0603
R1090,R1091	44-0270120-51-00	RES SMD 2.7K OHM 5% 1/16W 0603
R1092-R1094,R1115	44-0100020-51-00	RES SMD 100 OHM 5% 1/16W 0603
R1121-R1124	44-0150020-51-00	RES SMD 150 OHM 5% 1/16W 0603
R1141-R1148	44-0620020-51-00	RES SMD 620 OHM 5% 1/16W 0603
R1151	44-0100120-51-00	RES SMD 1K OHM 5% 1/16W 0603
ICs		
U1001	27-9493260-04-70	I.C. DD DTS & MPEG DECODER PLCC CS49326
U1002,U1003,U1014	27-0324590-24-00	I.C. OCTAL BIDIRECTIONAL TRANS CEIVER SMD 74LVC245ATTR
U1004	27-0115790-25-00	I.C. QUAD 2-I/P SELECTOR SOIC 74HC157MIR
U1005	27-9841500-25-53	I.C. 96KHz DIGITAL AUDIO INTERFACE RECEIVER SMD CS8415A-CS
U1007	27-2325607-00-88	I.C. EEPROM 256 X 8 BYTE 70nS PDIL W27C02-70
U1007	34-6032000-00-99	IC SOCKET DIL 32 PINS FT
U1008,U1009	27-0657490-18-00	I.C. OCTAL D-FLIP FLOPS 3-STAGE O/P SMD 74LVQ574M
U1010-U1013,U1023,U1025	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP SMD NJM5532M
U1015,U1020	27-3031710-06-00	I.C. REG 1A TO-220(T) LM317T
U1021	27-9422800-24-53	I.C. 24BIT 96KHz SUR SOUND CODE SSOP CS4228AKS
U1022	27-9434000-25-53	I.C. 24BIT 96KHz STEREO DAC FOR AUDIO SOIC CS4340
OSCILLATOR		
X1001	28-5122200-04-19	OSCILLATOR 12.288MHz 50ppm
AUDIO BOARD		
PCB ASSEMBLY	80-0907530-11-00	AUDIO ASSEMBLY
CAPACITORS		
C3101-C3116	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
RCA JACKS		
M303	34-4040420-00-60	RCA JACK 4 R-R/W-W PCB MOUNT
M301,M302	34-4060420-00-60	RCA JACK 6 R-R-R/W-W-W PCB MOUNT

Reference No.	Part No.	Description
RESISTORS		
J3101,J3102	44-0000027-11-00	RES SMD 0 OHM 5% 1/10W 0805
COMPONENT VIDEO BOARD		
PCB ASSEMBLY	80-0907530-42-00	COMPONENT VIDEO ASSEMBLY
CAPACITORS		
C4301-C4306	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C4310,C4311,C4312,C4325	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
C4313-C4315	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C4316,C4318,C4320	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C4317,C4319,C4321	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
DIODE		
D4301,D4302	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
RESISTORS		
J4301,J4302,J4303	44-0000027-11-00	RES SMD 0 OHM 5% 1/10W 0805
RCA JACK		
M431,M432,M434	34-4032020-00-60	RCA 3 G-BL-R PCB MOUNT
ICs		
U4301	27-5176600-18-23	I.C. VIDEO 3-CH75 OHM DRIVER BA7660FS
U4302,U4303	27-0140520-18-00	I.C. SINGLE DUAL TRIPLE M74HC4052MIR
DIGITAL BOARD		
PCB ASSEMBLY	80-0907530-47-00	DIGITAL ASSEMBLY
CAPACITORS		
C1222,C1223	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C1213,C1214,C1221	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C1232-C1235	45-0221055-55-57	CAP CER SMD 220pF 50V 10%
RCA JACKS		
J1001-J1004,J1007	34-4010320-00-60	RCA JACK 1 BLACK PCB MOUNT
FIBRE OPTICAL		
J1005,J1006	26-6701380-01-16	OPTIC RECEIVING UNIT GP1FA550RZ
J1008	26-6691386-00-16	OPTIC TRANSMITTER GP1FA550TZ
ICs		
U1201,U1202	27-0804990-18-00	I.C. HEX INVERTER M74HCU04MIR
U1203	27-0125190-18-00	I.C. 8-CH MULTIPLEXER 74HC251M1R
ISC BOARD		
PCB ASSEMBLY	80-0907530-74-00	ISC ASSEMBLY

Reference No.	Part No.	Description
CAPACITORS		
C786-C789,C816-C820	22-4210402-00-31	CAP MPF 0.1uF 63V 5%
C811,C829,C830,C832,C833	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
DIODES		
D810	20-5010401-50-47	DIODE BRI 10A/400V KBK10G
D811,D812	20-1912601-90-45	DIODE RECT 12A/600V TYN612
D813,D823	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D821,D822	20-3212002-00-36	DIODE ZENER BZX55 12V 1/2W 5%
TRANSISTORS		
Q781,Q782	21-0100410-00-12	XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
Q812,Q831,Q833	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
Q832,Q830	21-0100100-00-46	XTR SS PNP HFE 100 200MHz TO-92 A1015Y
RESISTORS		
R793,R790,	23-4228280-08-20	RES RN 0.22 OHM 5% 5W SIL 3 PIN
R837-R839 ⚠	23-5228330-00-00	RES FUSIBLE 0.22 OHM 10% 1/2W
R841,R840	23-2228232-00-00	RES MO 0.22 OHM 5% 1/2W
R881	30-0503106-02-22	VR SEMI-FIXED RESISTOR CF 50K OHM 30% B 6mm
ICs		
U801	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP NJM5532M
KEYBOARD		
PCB ASSEMBLY	80-0907530-02-00	KEYBOARD ASSEMBLY
CAPACITORS		
C208-C211	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C212	22-3102012-00-28	CAP ELEC GR 1000uF 10V 20%
C214	22-3107052-00-43	CAP ELEC. SS 0.1uF 50V 20%
C223	22-1103150-17-39	CAP CER KK 10nF 50V 10%
C224	22-3222032-00-34	CAP ELEC GS 2200uF 25V 20%
C255	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C241,C242	45-0102055-55-57	CAP CER SMD 1nF 50V 10%
C201,C202,C213,C215-C222,C229,C256	45-0104056-57-57	CAP CER SMD 0.1uF 50V 20%
C251-C254	45-0330054-52-57	CAP CER SMD 33pF 50V 5%
IR RECEIVER		
D201	26-0941380-00-00	IR RX 940nm 37.9KHz ST FM-7138TE5
DIODES		
D212,D214-D218	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D220	20-3251902-00-01	DIODE ZENER BZX55 5.1V 1/2W 5%
ENCODER		
M201	35-6001219-00-08	ENCODER ROTATRY L=20mm VER W/O CLICK

Reference No.	Part No.	Description
TRANSISTORS		
Q201	21-0100100-00-46	XTR SS PNP HFE 100 200MHz TO-92 A1015Y
Q203-Q206	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
RESISTORS		
R201-R207,R213,R219,R223,R224, R226,R227,R229,R231,R232	44-0100220-51-00	RES SMD 10K OHM 5% 1/16W 0603
R216,R225,R234	44-0100120-51-00	RES SMD 1K OHM 5% 1/16W 0603
R217,R218	44-0150120-51-00	RES SMD 1.5K OHM 5% 1/16W 0603
R220	44-0470120-51-00	RES SMD 4.7K OHM 5% 1/16W 0603
R221,R230	44-0220120-51-00	RES SMD 2.2K OHM 5% 1/16W 0603
R222	44-0220020-51-00	RES SMD 220 OHM 5% 1/16W 0603
R233	44-0470220-51-00	RES SMD 47K OHM 5% 1/16W 0603
R238	44-0120220-51-00	RES SMD 12K OHM 5% 1/16W 0603
R241,R242	44-0100020-51-00	RES SMD 100 OHM 5% 1/16W 0603
R251,R252	44-0100520-51-00	RES SMD 10M OHM 5% 1/16W 0603
R253	44-0000020-51-00	RES SMD 0 OHM 5% 1/16W 0603
TACT SWITCHES		
S201-S219	35-1001117-00-67	SW TACT NO 1P1T 50mA/12V VER H=7mm
ICs		
U201,U202	27-1086400-04-87	I.C. MCU 8 BIT 64KROM 512 BYTE SRAM PLCC M6759-A1F
U203	27-9630600-14-62	I.C. VFD DRIVER SMD QFP PT6306
U204-U207,U211	27-0540940-18-00	I.C. 8-STAGE SHIFT-AND-STORE BUS REGISTER HCF4094BM1
U208	27-0140510-18-00	I.C. SINGLE 8 CH ANALOG MUX/ DEMUX SMD M74HC4051MIR
U209	27-0324591-18-00	I.C. OCTAL BUS TRANSCEIVER 74VHC245M
U210	27-2300225-00-25	I.C. EEPROM 2K BYTE 250nS AT24C16
U214	27-9810000-28-36	I.C. MCU RESET MONITORS TCM810LENB713
VFD		
VD201	41-4340100-00-13	VFD 16-BT-93GNK
CRYSTALS		
X201,X202	28-5400200-06-33	CRYSTAL 40MHz 30ppm HC-49S
LED BOARD		
PCB ASSEMBLY	80-0907530-32-00	LED ASSEMBLY
LED		
D211	26-0012587-01-10	LED RED-GREEN 5X807mm COMMON ANODE
TACT SWITCHES		
S220	35-1001117-00-67	SW TACT NO 1P1T 50mA/12V VER H=7mm

Reference No.	Part No.	Description
MAIN BOARD		
PCB ASSEMBLY	80-0907530-00-00	MAIN ASSEMBLY
CAPACITORS		
C701,C704	22-3332042-30-35	CAP ELEC KM 3300uF 35V 20% 105C
C705,C706,C716,C725	22-3102032-30-28	CAP ELEC KM 1000uF 25V 20% 105C
C707	22-3222042-30-49	CAP ELEC KM 2200uF 35V 20% 105C
C710	22-3470052-00-43	CAP ELEC SS 47uF 50V 20% 85C
C711-C713	22-3102052-30-28	CAP ELEC KM 1000uF 50V 20% 105C
C715	22-4210502-00-31	CAP MPF 1uF 63V 5% DMF 5 SERIES
C719,C723,C702	22-3101022-30-13	CAP ELEC KM 100uF 16V 20% 105C
C721,C724	22-3222032-30-28	CAP ELEC KM 2200uF 25V 20% 105C
DIODES		
D701-D710	20-1001401-20-44	DIODE RECT 1A/400V DO41 1N4004
D711	20-3203102-00-01	DIODE ZENER BZX55 30V 1/2W 5%
D715	20-5004700-50-02	DIODE BRI 4A/70V RS402L
D716-D718	20-3951943-50-01	DIODE ZENER ZY5.1 2W 10%
TRANSISTORS		
Q701	21-1011210-50-12	XTR PW PNP 1A/100V TO-126 2SD600KE
ICs		
U701,U704-U706	27-3000501-17-14	I.C. VOLT REG 5V 1A NJM7805F
U702,U707	27-3001201-17-14	I.C. VOLT REG 12V 1A NJM7812
U703	27-3101201-13-14	I.C. VOLT REG TO-220F NJM7912
MULTI-CH BOARD		
PCB ASSEMBLY	80-0907530-64-00	MULTI-CHANNEL ASSEMBLY
CAPACITORS		
C607,C611,C612,C6201-C6218	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
C626	22-3221022-00-43	CAP ELEC SS 220uF 16V 20%
C627,C628,C633,C634	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C677,C678,C689,C690	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C755,C756,C775,C776	22-8226052-00-28	CAP ELEC 2.2uF 50V 20%
C757,C758	22-4282302-00-31	CAP MPF 0.082uF 63V 5%
C759-C762,C769,C770,C773,C774	22-4210402-00-31	CAP MPF 0.1uF 63V 5%
C763-C766	22-4247302-00-31	CAP MPF 0.047uF 63V 5%
C767,C768,C771,C772	22-4233202-00-31	CAP MPF 0.0033uF 63V 5%
C6301-C6304	45-0104056-57-57	CAP CER SMD 0.1uF 50V 20%
DIODES		
D601	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D602,D604	20-3275902-00-01	DIODE ZENER BZX55 7.5V 1/2W 5%
INDUCTORS		
L6101,L6102	24-0101108-00-28	IND CHOKE 100uH 10%

Reference No.	Part No.	Description
RCA JACKS		
M6101,M6103	34-4060420-00-60	RCA JACK 6 R-R-R/W-W-W PCB MOUNT
M6102	34-4020320-00-60	RCA JACK 2 B/B PCB MOUNT
TRANSISTORS		
Q6101	21-0000140-00-11	XTR SS NPN HFE 120 100MHz TO-92 SS8050C
Q6102	21-0100131-00-11	XTR SS PNP HFE 170 1.5A TO-92 SS8550C
Q6103	21-0100390-70-14	XTR SS PNP HFE 30 250MHz SPT DTA 114ESA
Q6104	21-0000400-70-14	XTR SS NPN HFE30 250MHz SPT DTC114ESA
Q6105,Q6106	21-0000360-00-00	XTR SS NPN HFE200-700 30MHz 2SC2878A
ICs		
U6101,U6102	27-7661516-14-01	I.C. SOUND PROCESSOR 7.1CH VOL+TONE SMD QFP M61516FP
U6104-U6107	27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP NJM5532M
PRE-OUT BOARD		
PCB ASSEMBLY	80-0907530-63-00	PRE-OUT ASSEMBLY
CAPACITORS		
C637,C642,C647,C652,C657,C662, C667,C672,C700,C705	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
C640,C645,C650,C655,C660,C665, C670,C675,C703,C708	22-3220022-00-43	CAP ELEC GS 22uF 16V 20%
C679,C680,C691,C692	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C684-C688,C699	22-3331022-00-28	CAP ELEC GR 330uF 16V 20%
DIODES		
D605-D614	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
INDUCTORS		
L602,L603,L604,L605,L606,L607, L608,L609	24-0100127-00-28	IND CHOKE 10uH 10%
RCA JACKS		
M607,M609	34-4040500-00-60	RCA JACK 4 R-W/R-W PCB MOUNT
M608,M612	34-4020300-00-60	RCA JACK 2 B/B PCB MOUNT
M610	34-4020200-00-60	RCA JACK 2 W/W PCB MOUNT
M611	34-4010100-00-60	RCA JACK 1 RED PCB MOUNT
TRANSISTORS		
Q608-Q615,Q617,Q629,Q630,Q632,Q633	21-0000350-70-00	XTR SS NPN HFE200-700 30MHz SPT RN1241A
Q616,Q618,Q620,Q622,Q624,Q631	21-0100390-70-14	XTR SS PNP HFE 30 250MHz SPT DTA 114ESA

Reference No.		Part No.	Description
RESISTORS			
R635,R642,R647,R654,R659,R666, R678,R688-R692,R694,R701,R705		23-1220102-00-00	RES MF 2.2K OHM 1% 1/6W
R636,R643,R648,R655,R660,R667, R672,R679,R695,R702		23-1330002-00-00	RES MF 330 OHM 1% 1/6W
ICs			
U609-U613		27-7055320-18-14	I.C. AUDIO LOW NOISE OP-AMP NJM5532M
PSU BOARD			
PSU ASSEMBLY*AH		80-0907530-01-00	PSU ASSEMBLY
PSU ASSEMBLY*C		80-0907530-01-01	PSU ASSEMBLY
CAPACITORS			
C752		22-3476052-00-43	CAP ELEC SS 4.7uF 50V 20%
C753		22-4210202-00-31	CAP MPF 0.001uF 63V 5%
C763	⚠	22-1103960-37-71	CAP CER 0.01uF 250VAC 20%
DIODES			
D751,D756		20-0000000-00-13	DIODE SW 4NS DO35 1N4148
D752,D753,D754,D755		20-1001401-20-44	DIODE RECT 1A/400V DO41 1N4004
FUSES			
F751*AH	⚠	33-0191001-00-88	FUSE 10A/250VAC TIME-LAG 5X20mm UL/CSA 5T
F751*C	⚠	33-0181006-00-88	FUSE 6.3A/250VAC TIME-LAG 5X20mm VDE/UL/CSA 5T
F752*AH	⚠	33-0111006-00-88	FUSE 1.6A 250V TIME LAG 5x20mm 5T UL/CSA/VDE/SEMKO
F752*C	⚠	33-0151006-00-88	FUSE 800mA 250V TIME LAG 5x20mm 5T UL/CSA/VDE/SEMKO
RELAY			
M751	⚠	32-1212100-01-97	RELAY MINIATURE 2P1T SDT-S-112DMR
TRANSISTORS			
Q751	⚠	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
RESISTORS			
R751	⚠	23-5228330-00-00	RES FUSIBLE 0.22 OHM 10%
R754*AH	⚠	23-8395232-00-25	COND PATH RESISTOR 3.9M OHM 1/2W 5%
STANDBY TRANSFORMER			
T751	⚠	25-0040021-31-18	XFOFMER PW EI-35 100V/220V T05382B
POWER SWITCH BOARD			
PCB ASSEMBLY		80-0907530-48-00	POWER SWITCH ASSEMBLY
CAPACITOR			
C764	⚠	22-1103960-37-71	CAP CER 0.01uF 250VAC 20%

Reference No.	Part No.	Description
POWER SWITCH		
S751 ⚠	35-0101109-00-67	SW POWER TV-8 10A 250VAC PS3-22SPA-P7AZ
SECONDARY BOARD		
PCB ASEMBLY	80-0907530-27-00	SECONDARY ASSEMBLY
CAPACITORS		
C801,C802	22-3123072-00-41	CAP ELEC LP 12000uF 80V 20%
BRIDGE RECTIFIER		
D801	20-5125401-50-02	BRIDGE RECTIFIER 25A 400V MP254W BR-25W
SPEAKER A BOARD		
PCB ASSEMBLY	80-0907530-67-00	SPEAKER A ASSEMBLY
SPEAKER TERMINAL		
M5101,M8101	34-3000021-00-80	SPEAKER TERMINAL 6P BINDING R/B
SPEAKER B BOARD		
PCB ASSEMBLY	80-0907530-67-01	SPEAKER B ASSEMBLY
SPEAKER TERMINAL		
M5102	34-3000022-00-80	SPEAKER TERMINAL 4P BINDING R/B
S-VIDEO BOARD		
PCB ASSEMBLY	80-0907530-26-00	S-VIDEO ASSEMBLY
CAPACITORS		
C4108,C4112,C4116,C4156,C4170, C4171,C4178,C4179	22-3471012-00-28	CAP ELEC GR 470uF 10V 20%
C4133,C4141	22-3106052-00-43	CAP ELEC SS 1uF 50V 20%
C4134,C4145,C4149,C4101-C4107, C4109-C4111,C4113-C4115,C4158	22-3101012-00-43	CAP ELEC SS 100uF 10V 20%
C4136,C4146	22-4247402-00-31	CAP MPF 0.47uF 63V 5%
C4137,C4144	22-3477052-00-43	CAP ELEC SS 0.47uF 50 20%
C4150	22-3470022-00-43	CAP ELEC SS 47uF 16V 20%
C4151	22-3100022-00-43	CAP ELEC SS 10uF 16V 20%
C4153,C4157	22-3226052-00-43	CAP ELEC SS 2.2uF 50V 20%
C4160,C4162,C4166,C4167	22-3221012-00-43	CAP ELEC SS 220uF 10V 20%
C4186	22-4247302-00-31	CAP MPF 0.047uF 63V 5%
C4138	22-7200210-00-09	CAP TRIMMER 20pF 20%
DIODES		
D4101-D4111	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
INDUCTORS		
L4101	24-0569107-00-28	IND CHOKE 5.6uH 10%
L4102	24-0220107-00-28	IND CHOKE 22uH 10%

Reference No.	Part No.	Description
DIN JACK		
M4101-M4108	34-4110300-00-60	DIN JACK 1 BLACK PCB MOUNT
TRANSISTORS		
Q4108,Q4116-Q4119,Q4136,Q4137, Q4140,Q4141,Q4151-Q4155	21-0100370-70-14	XTR SS PNP HFE 270-560 140MHz 2SA933AS
Q4113,Q4114,Q4121,Q4124,Q4125, Q4128,Q4130,Q4133,Q4142-Q4145	21-0000360-00-00	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q4115,Q4126,Q4127	21-0000390-70-14	XTR SS NPN HFE270-560 180MHz 2SC1740S
Q4120,Q4123,Q4146,Q4147	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q4122,Q4131	21-0000120-70-14	XTR SS NPN HFE 68 30MHz SPT DTC144ES
Q4132	21-0000010-00-46	XTR SS NPN HEF 100 200MHz TO-92 C1815Y
SLIDE SWITCH		
S4101	35-4102209-00-67	SW SLIDE 2P2T RIGHT L=9
ICs		
U4101	27-5574763-21-02	I.C. OSD DIP30SD LC74763-9012
U4102,U4103	27-0140510-18-00	I.C. SINGLE 8 CH ANALOG MUX/ DEMUX SMD M74HC4051MIR
CRYSTALS		
X4101	28-5143200-06-19	CRYSTAL 14.318MHz 30ppm HC-49S
X4102	28-5177200-06-19	CRYSTAL 17.73447MHz 30ppm HC-49S
TRIGGER BOARD		
PCB ASSEMBLY	80-0907530-68-00	TRIGGER ASSEMBLY
DIODES		
D351,D352,D353	20-3251902-00-01	DIODE ZENER BZX55 5.1V 1/2W 5%
D354,D355,D357,D358,D3501,D3502	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
JACKS		
M351-M355,M357	34-4310300-00-60	PHONE JACK 1 BLACK PCB MOUNT 3.5mm
TRANSISTOR		
Q351	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
RESISTORS		
R358-R360	23-2121250-00-00	RES MO 120 OHM 5%
SLIDE SWITCH		
S351	35-4102209-00-67	SW SLIDE 2P2T RIGHT L=9
REGULATORS		
U3501	27-3001201-17-14	I.C. VOLT REG 12V 1A NJM7812
U352	27-3001201-07-85	I.C. VOLT REG 12V 0.1A LM78L12

Reference No.	Part No.	Description
VIDEO-6 BOARD		
PCB ASSEMBLY	80-0907530-45-00	VIDEO-6 BOARD
CAPACITORS		
C4401-C4403	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
JACKS		
M4401	34-4010000-01-60	RCA JACK 1 YELLOW PCB MOUNT
M4404	34-4010100-01-60	RCA JACK 1 RED PCB MOUT
M4403	34-4010200-01-60	RCA 1 WHITE PCB MOUNT
M4402	34-4110300-00-60	DIN JACK 1 BLACK PCB MOUNT
J4401	34-4510302-01-80	PHONE JACK D6.3 1 PCB MOUNT
COMPOSITE VIDEO BOARD		
PCB ASSEMBLY	80-0907530-66-00	COMPOSITE VIDEO ASSEMBLY
CAPACITORS		
C4201-C4203,C4205,C4207	22-3101022-00-43	CAP ELEC SS 100uF 16V 20%
C4204,C4206,C4208,C4214,C4220	22-3471022-00-28	CAP ELEC GR 470uF 16V 20%
C4211,C4225	22-3221012-00-43	CAP ELEC SS 220uF 10V 20%
DIODES		
D4201,D4202	20-0000000-00-13	DIODE SW 4NS DO35 1N4148
RESISTORS		
J4201,J4202	44-0000027-11-00	RES SMD 0 OHM 5% 1/10W 0805
RCA JACKS		
M4201,M4202	34-4040020-00-60	RCA JACK 4 Y-Y/Y-Y PCB MOUNT
TRANSISTORS		
Q4201,Q4202	21-0000360-00-00	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q4203,Q4204	21-0000380-70-14	XTR SS NPN HFE20 250MHz DTC-123ESA
Q4207,Q4210,Q4501-Q4503	21-0100370-70-14	XTR SS PNP HFE 270-560 140MHz 2SA933AS
ICs		
U4201	27-0140510-18-00	I.C. SINGLE 8 CH ANALOG MUX/DEMUX SMD M74HC4051MIR

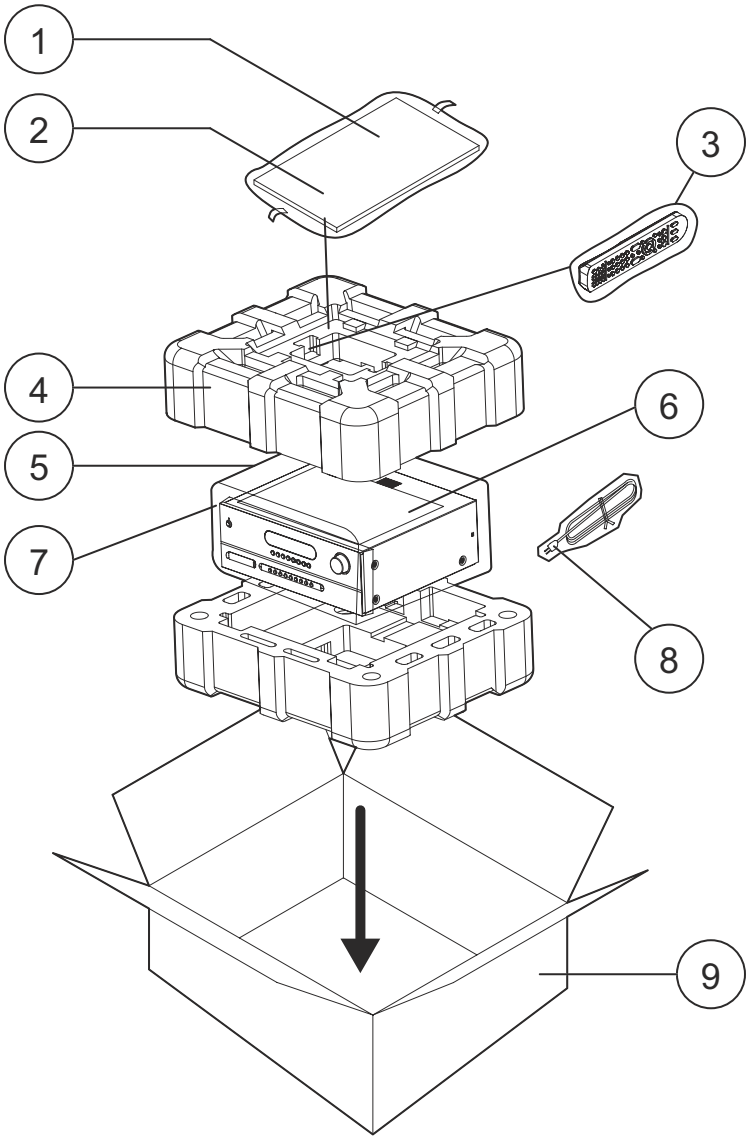
NOTE: THE COMPONENTS IDENTIFIED BY ⚠ MARK ARE CRITICAL FOR RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

<*AH > : USA, CANADIAN MODEL ONLY.

<*C > : EUROPEAN MODEL ONLY.

RESISTORS: MO-METAL OXIDE, RN-CERAMIC CASE, MF-METAL FILM.

PACKING DIAGRAM & PARTS LIST



Item	Part No.	Description	Qty.
1	64-0200001-01-00	POLYBAG MANUAL	1
2	31-6407520-00-98	FM WIRE ANTENNA	1
	31-6472801-00-28	AM LOOP ANTENNA W/STAND	1
	34-0081004-00-67	300 TO 75 OHM ADAPTER	1
	37-0240300-00-81	LITHIUM BUTTON CELL CR2025	1
	61-0753004-40-99	OWNERíS MANUAL T753 GB/F/D/NL	1
	61-0753004-41-99	OWNERíS MANUAL T753 E/I/P/S	1
	83-0762000-00-04	REMOTE CONTROLLER NAD ZR-2	1
	37-0020200-00-79	BATTERY AAA 1.5V ER03X	4
	65-0752000-00-98	WARRANTY CARD	1
3	83-0752000-01-04	REMOTE CONTROLLER NAD HTR-2	1
4	63-0763001-00-01	POLYFOAM TOP / BOTTOM	2
5	64-0762001-00-00	POLYBAG MAIN UNIT	1
6	65-0752070-00-99	A3 WHITE PAPER	1
7	64-0762000-00-00	EPE PROTECTIVE COVER	1
8 *AH ⚠	36-2881010-07-97	POWER CORD 110V 3PINS 15A/125V UL/CSA	1
*C ⚠	36-2983110-07-97	POWER CORD CE 3 PINS 10A/16A 250V	1
9	67-0753000-10-99	MASTER CARTON BOX T753	1

VERSION HISTORY

SERIAL NUMBER	SOFTWARE VER.	PCB ASSEMBLY VERSION
R39T75300001-R39T75300500	V1.27	ALL ARE ISSUE 3
R3YT75300501-R3YT75301500	V1.27	ONLY KEYBOARD/LED/S-VIDEO/DIGITAL/ COMPOSITE/POWER SUPPLY/POWER AMP BOARDS ISSUE 3, ALL OTHER ISSUE 4.
R3YT75301501-R3YT75302100	V1.27	ONLY MAIN/TRIGEER/VD6/SPEAKER/ POWER SWITCH BOARDS ISSUE 5, ALL OTHER ISSUE 4.
R3YT75302101-R3YT75303100	V1.27	ONLY KEYBOARD/LED/S-VIDEO/DIGITAL/ COMPOSITE/POWER SUPPLY/POWER AMP BOARDS ISSUE 3, ALL OTHER ISSUE 4.
R3YT75303101-R3YT75304100	V1.27	ONLY MAIN/TRIGEER/VD6/SPEAKER/ POWER SWITCH BOARDS ISSUE 5, ALL OTHER ISSUE 4.
R3YT75304101-R3YT75306036	V1.27	ONLY MAIN/TRIGEER/VD6/SPEAKER/ POWER SWITCH BOARDS ISSUE 5, ALL OTHER ISSUE 4.

REMARK: PCB Number 55-0753XXX-XX-**00** = ISSUE 3,
PCB Number 55-0753XXX-XX-**01** = ISSUE 4,
PCB Number 55-0753XXX-XX-**02** = ISSUE 5,
PCB Number 55-0753XXX-XX-**03** = ISSUE 6.

SERVICE MANUAL

T 753

Surround Sound Receiver

NAD ELECTRONICS LTD
LONDON